



# STIC Search Report

## EIC 3600

STIC Database Tracking Number: 100886

TO: Elaine Gort  
Location: Pk. 5, 7B21  
Art Unit: 3627  
Wednesday, August 13, 2003

Case Serial Number: 09/595937

From: Caryn Wesner-Early  
Location: EIC 3600  
PK5-Suite 804  
Phone: 306-5967

caryn.wesner@uspto.gov

### Search Notes

If a modification or re-focus of this search is needed, please let me know.

Caryn S. Wesner-Early, MSLS  
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EIC 3600, US Patent & Trademark Office  
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# EIC2100 COMMERCIAL DATABASE SEARCH REQUEST

Staff Use Only

## Complete 705 Template Search Requested

☐ RUSH - SPE signature required: \_\_\_\_\_

Access DB# 100886

Business Methods Case: 705/ 34 906f-0177  
Write in 705 subclass(es) to search required files for 705 cases or cases cross referenced in 705.

Log Number \_\_\_\_\_

Requester's Full Name: Elaine Gort Examiner #: 77459 Date: 8/5/03

Art Unit: 3627 Phone Number 703/308-6391 Serial Number: 91595937

Bldg & Room #: PK5 7B21

Results Format Preferred: PAPER

If more than one search is submitted, please prioritize searches in order of need.

### Provide the PALM Bib page or the following:

Title of Invention: see attached bib sheet

Inventors (provide full names): see bib sheet Serge M. Manning

Earliest Priority Filing Date: 6/16/00

### Requested attachments:

- If possible, provide the cover sheet, the IDS, examples, or relevant citations, authors, etc, if known.
- Please attach copies of the parts of this case that help explain or are most pertinent to this search. Examples are: abstract, background, summary, claim(s) [not all of the claims].

See particularly claims 1

The claimed or apparent novelty of the invention is:

The use of accumulating data bursts of information and then sending the accumulated data burst in a format with a start record and a stop record. The start and stop records incorporate include information about the accumulated data bursts

This search should focus on:

(Also include keywords or synonyms)

same as above

Special Instructions or Other Comments

Thanks! Elaine Gort



# STIC Search Results Feedback Form

**EIC 3600**

Questions about the scope or the results of the search? Contact *the EIC searcher or contact:*

**Karen Lehman, EIC 3600 Team Leader  
306-5783, PK5- Suite 804**

## Voluntary Results Feedback Form

- I am an examiner in Workgroup:  Example: 3620 (optional)
- Relevant prior art **found**, search results used as follows:
- ☐ 102 rejection
  - ☐ 103 rejection
  - ☐ Cited as being of interest.
  - ☐ Helped examiner better understand the invention.
  - ☐ Helped examiner better understand the state of the art in their technology.

*Types of relevant prior art found:*

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

- Relevant prior art **not found**:
- ☐ Results verified the lack of relevant prior art (helped determine patentability).
  - ☐ Results were not useful in determining patentability or understanding the invention.

**Comments:**

**Drop off or send completed forms to EIC3600 PK5 Suite 804**



?show files;ds

File 348:EUROPEAN PATENTS 1978-2003/Jul W03

• (c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20030807,UT=20030731

(c) 2003 WIPO/Univentio

File 347:JAPIO Oct 1976-2003/Apr(Updated 030804)

(c) 2003 JPO & JAPIO

File 351:Derwent WPI 1963-2003/UD,UM &UP=200351

(c) 2003 Thomson Derwent

File 371:French Patents 1961-2002/BOPI 200209

(c) 2002 INPI. All rts. reserv.

Set	Items	Description
S1	17	AU='MANNING S'
S2	10	AU='MANNING SERGE'
S3	27	S1 OR S2
S4	270508	IC=G06F-017?
S5	0	S3 AND S4
S6	3383424	PACKET? ? OR BURST? ? OR FRAME OR DATAGRAM OR ATM OR ASYNC- HRONOUS()TRANSFER()MODE OR UNIT OR APDU
S7	16	S3 AND S6 /
S8	16	IDPAT (sorted in duplicate/non-duplicate order)
S9	10	IDPAT (primary/non-duplicate records only)

9/3,K/1 (Item 1 from file: 351)  
DIALOG(R)File 351:Derwent WPI  
(c) 2003 Thomson Derwent. All rts. reserv.

015249806 \*\*Image available\*\*  
WPI Acc No: 2003-310732/200330  
XRPX Acc No: N03-247275

Packet data service facilitation method in telecommunication network,  
involves providing layers performing specific communication functions  
that are controlled by state machines operating independently

Patent Assignee: NORTEL NETWORKS LTD (NELE )  
Inventor: GHALEB I; GUTIERREZ A; MANNING S  
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6519266	B1	20030211	US 9870407	P	19980105	200330 B
			US 98218964	A	19981222	

Priority Applications (No Type Date): US 9870407 P 19980105; US 98218964 A  
19981222

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6519266	B1	11	H04J-013/00	Provisional application US 9870407

Packet data service facilitation method in telecommunication network,  
involves providing layers performing specific communication functions  
that...

...Inventor: MANNING S

Abstract (Basic):

... For facilitating packet data service in telecommunication  
network such as CDMA network...

...The figure shows a layer diagram of the packet data control function  
for controlling the operation of the CDMA network...

Title Terms: PACKET ;

9/3,K/2 (Item 2 from file: 351)  
DIALOG(R)File 351:Derwent WPI  
(c) 2003 Thomson Derwent. All rts. reserv.

014755048 \*\*Image available\*\*  
WPI Acc No: 2002-575752/200261  
XRPX Acc No: N02-456433

Dynamically assigning home agent for mobile IP session in manner that  
allows network to assign agent that is best able to serve a mobile  
station

Patent Assignee: BOULOS P (BOUL-I); CHOWDHURY K (CHOW-I); MANNING S  
(MANN-I); NORTEL NETWORKS LTD (NELE )

Inventor: BOULOS P; CHOWDHURY K; MANNING S  
Number of Countries: 090 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200263848	A2	20020815	WO 2001IB2571	A	20011214	200261 B
US 20020114323	A1	20020822	US 2001267868	A	20010209	200263
			US 2001273864	A	20010307	
			US 2001989599	A	20011120	

Priority Applications (No Type Date): US 2001989599 A 20011120; US  
2001267868 P 20010209; US 2001273864 P 20010307; US 2001297024 P 20010608

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 200263848	A2	E	40 H04L-029/06	

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN

CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ  
 LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK  
 . SL TJ TM TN TR TT UA UG UZ VN YU ZA ZW  
 Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
 IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW  
 US 20020114323 A1 H04L-012/56 Provisional application US 2001267868

Provisional application US 2001273864

...Inventor: **MANNING S**

Abstract (Basic):

... A set IP address is used that indicates to the network components, e.g. the **packet** -switched data network, the home agent, the home authorization, authentication, and accounting server, etc. that...

**9/3,K/3 (Item 3 from file: 351)**

DIALOG(R)File 351:Derwent WPI

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014459127 \*\*Image available\*\*

WPI Acc No: 2002-279830/200232

XRPX Acc No: N02-218490

**Mobile internet protocol wireless communications network, has AAA server which controls the allocation of addresses for the mobile node and performing accounting functions for that cellular site**

Patent Assignee: MANNING S (MANN-I); WENZEL P W (WENZ-I)

Inventor: **MANNING S ; WENZEL P W**

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020012339	A1	20020131	US 2000215747	P	20000706	200232 B
			US 2001898205	A	20010703	

Priority Applications (No Type Date): US 2000215747 P 20000706; US 2001898205 A 20010703

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020012339	A1	12	H04L-012/66	Provisional application US 2000215747

Inventor: **MANNING S ...**

Abstract (Basic):

... b) a method for supporting communications on **packet** -based network...

...base station to another allows the mobile node to continue to transmit and receive information **packets** in a multipart session. Prevents premature deallocation of the mobile node's IP address multipart...

**9/3,K/4 (Item 4 from file: 351)**

DIALOG(R)File 351:Derwent WPI

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013448443 \*\*Image available\*\*

WPI Acc No: 2000-620386/200060

XRPX Acc No: N00-459839

**Classifying data according to quality of service in a data packet comprising mapping the data packets to a predetermined quality of service plane**

Patent Assignee: NORTEL NETWORKS CORP (NELE ); NORTEL NETWORKS LTD (NELE )

Inventor: **MANNING S** ; SEN S; WANG C C  
Number of Countries: 026. Number of Patents: 002  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1049298	A2	20001102	EP 2000303290	A	20000418	200060 B
CA 2303467	A1	20001022	CA 2303467	A	20000330	200063

Priority Applications (No Type Date): US 99454793 A 19991203; US 99130618 P 19990422

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1049298	A2	E	14	H04L-012/56	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT					
LI LT LU LV MC MK NL PT RO SE SI					
CA 2303467	A1	E		H04L-012/24	

**Classifying data according to quality of service in a data packet comprising mapping the data packets to a predetermined quality of service plane**

Inventor: **MANNING S** ...

Abstract (Basic):

... INDEPENDENT CLAIMS are included for apparatus for classifying data in a data **packet** and for a program of instructions...

...Classifying data in a data **packet** .

...

...Identifying a **packet** that is encapsulated by a point-to-point protocol **packet** .

...Title Terms: **PACKET** ;

**9/3,K/5** (Item 5 from file: 351)

DIALOG(R) File 351:Derwent WPI

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013406373 \*\*Image available\*\*

WPI Acc No: 2000-578311/200054

XRPX Acc No: N00-427861

**Burst request signal processing for cellular communication, has mobile station to transmit burst request signal with number of channel assignment in specific duration of user data transmission to base station**

Patent Assignee: NORTEL NETWORKS CORP (NELE )

Inventor: CHANG K; **MANNING S**

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6088578	A	20000711	US 9879512	A	19980326	200054 B
			US 98218969	A	19981222	

Priority Applications (No Type Date): US 9879512 P 19980326; US 98218969 A 19981222

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6088578	A		8	H04Q-007/38	Provisional application US 9879512

**Burst request signal processing for cellular communication, has mobile station to transmit burst request signal with number of channel assignment in specific duration of user data transmission to...**

...Inventor: **MANNING S**

Abstract (Basic):

... Mobile stations (MS) (28,30,32) transmit **burst** request signal

which has data mount, number of channel assignment in specific duration of user...

... c) high speed data **burst** transmission system...

... **Burst** request signal processing method is used for high speed data (HSD) cellular or code division

Title Terms: **BURST** ;

**9/3,K/6 (Item 6 from file: 351)**

DIALOG(R)File 351:Derwent WPI

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013320100 \*\*Image available\*\*

WPI Acc No: 2000-492038/200044

XRPX Acc No: N00-365141

**Protocol mapping e.g. for communication network**

Patent Assignee: NORTEL NETWORKS CORP (NELE )

Inventor: **MANNING S**

Number of Countries: 026 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 999672	A2	20000510	EP 99308857	A	19991108	200044 B
CA 2288347	A1	20000506	CA 2288347	A	19991102	200044

Priority Applications (No Type Date): US 99363418 A 19990729; US 98107499 P 19981106

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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EP 999672	A2	E 11	H04L-012/28	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI

CA 2288347	A1	E	H04L-029/08
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Inventor: **MANNING S**

Abstract (Basic):

... a point-to-point protocol (PPP)/High-Level Data Link Control (HDLC) protocol in a **packet** data serving node (PDSN). A radio access network (RAN) is isolated from the PDSN. Communication...

... For mapping **packet** data functional entities to elements in a communication network...

**9/3,K/7 (Item 7 from file: 351)**

DIALOG(R)File 351:Derwent WPI

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012721285 \*\*Image available\*\*

WPI Acc No: 1999-527397/199944

XRPX Acc No: N99-390662

**Cellular radio system CDMA protocol for sending data packets between mobile subscriber and base station over access channel**

Patent Assignee: NORTHERN TELECOM LTD (NELE )

Inventor: GUTIERREZ A; JALALI A; **MANNING S**

Number of Countries: 081 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9941884	A1	19990819	WO 99IB279	A	19990216	199944 B
AU 9922942	A	19990830	AU 9922942	A	19990216	200003
EP 1057306	A1	20001206	EP 99902743	A	19990216	200064
			WO 99IB279	A	19990216	

Priority Applications (No Type Date): US 99238443 A 19990128; US 9874976 P 19980217

Patent Details:



Patent No Kind Lan Pg Main IPC Filing Notes  
 WO 9941884 A1 E 23 H04L-012/56  
 Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU  
 CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR  
 LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
 TR TT UA UG UZ VN YU ZW  
 Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
 IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW  
 AU 9922942 A H04L-012/56 Based on patent WO 9941884  
 EP 1057306 A1 E H04L-012/56 Based on patent WO 9941884  
 Designated States (Regional): DE FR GB

**Cellular radio system CDMA protocol for sending data packets between  
 mobile subscriber and base station over access channel**

...Inventor: **MANNING S**

Abstract (Basic):

... as CDMA where access message data transfer efficiency is  
 increased by removing need for preamble **frame** and message capsule  
**frame** to have equal duration times. This increases efficiency of data  
 transmission between mobile subscriber or station and base station by  
 altering **frame** size of access channel preamble and channel message  
 capsule.

... For sending **bursty** traffic via CDMA physical layer in the form  
 of data **packets** transmitted between mobile subscriber and base  
 station over access channel...

...Increased efficiency of access message data transfer since preamble  
**frame** and message capsule **frame** duration need not be the same...

...Title Terms: **PACKET ;**

**9/3,K/8** (Item 8 from file: 351)  
 DIALOG(R)File 351:Derwent WPI  
 (c) 2003 Thomson Derwent. All rts. reserv.

012193798 \*\*Image available\*\*  
 WPI Acc No: 1998-610711/199851  
 XRPX Acc No: N98-475028

**Reverse-link power control for use in a wireless communications system,  
 including high speed data applications - the reverse-link power control  
 step-sizes for a number of subscriber units are dynamically controlled by  
 a base station depending upon system conditions**

Patent Assignee: NORTHERN TELECOM LTD (NELE ); NORTEL NETWORKS CORP (NELE  
 )

Inventor: ALI F; CHANG K; GUTIERREZ A; HUANG C; **MANNING S**

Number of Countries: 082 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9851026	A1	19981112	WO 98US9121	A	19980505	199851 B
AU 9871764	A	19981127	AU 9871764	A	19980505	199915
US 5896411	A	19990420	US 9745564	A	19970505	199923
			US 97998542	A	19971226	
EP 986868	A1	20000322	EP 98918949	A	19980505	200019
			WO 98US9121	A	19980505	

Priority Applications (No Type Date): US 97998542 A 19971226; US 9745564 P  
 19970505

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
 WO 9851026 A1 29 H04B-015/00  
 Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU  
 CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR  
 LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
 TR TT UA UG US UZ VN YU ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
 IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW  
 AU 9871764 A H04B-015/00 Based on patent WO 9851026  
 US 5896411 A H04B-015/00 Provisional application US 9745564  
 EP 986868 A1 E H04B-015/00 Based on patent WO 9851026  
 Designated States (Regional): DE FR GB

...Inventor: MANNING S  
 ...Title Terms: UNIT ;

9/3,K/9 (Item 9 from file: 351)  
 DIALOG(R)File 351:Derwent WPI  
 (c) 2003 Thomson Derwent. All rts. reserv.

010173980  
 WPI Acc No: 1995-075233/199510  
 XRAM Acc No: C95-033493

**Transpeptidation of recombinant polypeptides - using endopeptidase such  
 as trypsin or thrombin to modify C-terminal residue.**  
 Patent Assignee: BIONEBRASKA INC (BION-N); RESTORAGEN INC (REST-N)  
 Inventor: HENRIKSEN D; MANNING S ; PARTRIDGE B; STOUT J; WAGNER F W; STOUT  
 J S

Number of Countries: 057 Number of Patents: 011  
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9503405	A2	19950202	WO 94US8125	A	19940719	199510 B
AU 9480094	A	19950220	AU 9480094	A	19940719	199521
WO 9503405	A3	19950316	WO 94US8125	A	19940719	199613
US 5512459	A	19960430	US 9395162	A	19930720	199623
JP 9500279	W	19970114	WO 94US8125	A	19940719	199712
			JP 95505268	A	19940719	
EP 789760	A1	19970820	EP 94931264	A	19940719	199738
			WO 94US8125	A	19940719	
US 5707826	A	19980113	US 9395162	A	19930720	199809
			US 95470220	A	19950606	
AU 693815	B	19980709	AU 9480094	A	19940719	199838
NZ 274962	A	19980826	NZ 274962	A	19940719	199840
			WO 94US8125	A	19940719	
US 6037143	A	20000314	US 9395162	A	19930720	200020
			US 95470220	A	19950606	
			US 95520485	A	19950829	
			US 97967374	A	19971107	
US 6403361	B1	20020611	US 9395162	A	19930720	200244
			US 95470220	A	19950606	
			US 95520485	A	19950829	
			US 97967374	A	19971107	
			US 2000505991	A	20000217	

Priority Applications (No Type Date): US 9395162 A 19930720; US 95470220 A  
 19950606; US 95520485 A 19950829; US 97967374 A 19971107; US 2000505991 A  
 20000217

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9503405	A2	E	69	C12N-015/11	
Designated States (National): AM AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB GE HU JP KE KG KP KR KZ LK LT LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK TJ TT UA UZ VN Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE					
AU 9480094	A			C12N-015/11	Based on patent WO 9503405
WO 9503405	A3			C12N-015/11	
US 5512459	A		22	C12P-021/06	
JP 9500279	W		69	C12N-015/09	Based on patent WO 9503405
EP 789760	A1	E		C12N-015/11	Based on patent WO 9503405

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC  
NL PT SE

US 5707826	A	22 C12P-021/06	Cont of application US 9395162 Cont of patent US 5512459
AU 693815	B	C12N-015/11	Previous Publ. patent AU 9480094 Based on patent WO 9503405
NZ 274962	A	C12P-021/06	Based on patent WO 9503405
US 6037143	A	C12P-021/06	Div ex application US 9395162 Div ex application US 95470220 Cont of application US 95520485 Div ex patent US 5512459 Div ex patent US 5707826
US 6403361	B1	C12N-001/20	Div ex application US 9395162 Div ex application US 95470220 Cont of application US 95520485 Cont of application US 97967374 Div ex patent US 5507826 Div ex patent US 5512459 Cont of patent US 6037143

...Inventor: **MANNING S**

...Abstract (Basic): A process for modifying a polypeptide by transpeptidation comprises contacting together (i) an addition **unit** ; (ii) an endopeptidase enzyme specific for an enzyme cleavage site; and (iii) the recombinant polypeptide, composed of at least one leaving **unit** and a core linked together by the cleavage site of (ii), such that the endopeptidase produces a modified polypeptide having the addition **unit** attached to the core and substituted for the leaving **unit** . Also claimed are: (1) a process for cleavage of a polypeptide at the C-terminus...

...41) (SEQ ID NO:7), respectively, where the terminal copy is linked to a leaving **unit** ; (4) an expression vector contg a DNA sequence coding for a polypeptide comprising a core and at least one leaving **unit** as described above; (5) a recombinant gene contg a DNA sequence as in (4); (6...

...Abstract (Equivalent): A process for modifying a polypeptide by transpeptidation comprises contacting together (i) an addition **unit** ; (ii) an endopeptidase enzyme specific for an enzyme cleavage site; and (iii) the recombinant polypeptide, composed of at least one leaving **unit** and a core linked together by the cleavage site of (ii), such that the endopeptidase produces a modified polypeptide having the addition **unit** attached to the core and substituted for the leaving **unit** . Also claimed are: (1) a process for cleavage of a polypeptide at the C-terminus...

...41) (SEQ ID NO:7), respectively, where the terminal copy is linked to a leaving **unit** ; (4) an expression vector contg a DNA sequence coding for a polypeptide comprising a core and at least one leaving **unit** as described above; (5) a recombinant gene contg a DNA sequence as in (4); (6...

...for modifying a polypeptide by transpeptidation comprising: contacting (a) the polypeptide, which includes a leaving **unit** linked to a core by an enzyme cleavage site, and (b) an addition **unit** with (c) thrombin to cleave the leaving **unit** from the core at the enzyme cleavage site and produce a modified polypeptide having the addition **unit** attached to the core...

9/3,K/10 (Item 10 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

00486178      \*\*Image available\*\*

**ANALOG TO DIGITAL FACSIMILE INTERFACE DEVICE FOR WIRELESS NETWORKS**  
**INTERFACE DE TELECOPIE ANALOGIQUE-NUMERIQUE POUR RESEAUX SANS FIL**

Patent Applicant/Assignee:

NORTHERN TELECOM LIMITED,  
MANNING Serge,  
WENZEL Peter W,  
TAYLOR Cecil L,  
LAUSON David J,

Inventor(s):

MANNING Serge ,  
WENZEL Peter W,  
TAYLOR Cecil L,  
LAUSON David J

Patent and Priority Information (Country, Number, Date):

Patent: WO 9917530 A1 19990408  
Application: WO 98IB1094 19980716 (PCT/WO IB9801094)  
Priority Application: US 97941818 19971001

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES  
FI GB GE GH GM HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG  
MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ  
VN YU ZW AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF  
CG CI CM GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 5756

Inventor(s):

MANNING Serge ...

Fulltext Availability:

Detailed Description

Detailed Description

... base stations form an  
interface between conventional wireline networks and wireless  
subscriber units. A subscriber **unit** is a user device which contains a  
radio transceiver for communicating with a base station...

...be compatible with ordinary wireline telephones

Typically, an ordinary telephone is plugged into the subscriber **unit**  
through ...of  
being connected to the public switched telephone network. For  
conventional telephones, such a subscriber **unit** allows an individual to  
use the ordinary wireline telephone in conjunction with the subscriber  
**unit** to place or receive a call. Unfortunately, facsimile (fax)  
machines do  
not work well when merely connected to a subscriber **unit** or wireless  
transceiver

Fax machines possess an interface that uses analog modem tones  
(compliant with...establishing a  
communication link over a wireless network

Accordingly, an interface device includes a processing **unit** for  
emulating ...the register area 308B for receiving and placing calls  
through port 116. Similarly, the processing **unit** 304 uses the protocol  
information stored in  
the register area 308C for communications through ports...port 116 and  
will store the same in the register  
area 308A. Thereafter, the processing **unit** 304 will extract the  
document image from the register area 308A and will transmit the same  
over port 120A. Likewise, the processing **unit** 304 will receive a fax  
10  
document image from port 120A and will store the...

?show files;ds

File 347:JAPIO Oct 1976-2003/Apr(Updated 030804)

(c) 2003 JPO & JAPIO

File 351:Derwent WPI 1963-2003/UD,UM &UP=200351

(c) 2003 Thomson Derwent

File 371:French Patents 1961-2002/BOPI 200209

(c) 2002 INPI. All rts. reserv.

Set	Items	Description
S1	436365	(RECORD? ? OR DATA OR FILE? ? OR INFORMATION OR INFO OR BL- OCK? ?)(3N)(TRANSMIT? OR TRANSMISSION? ? OR SEND??? OR RELAY?- ?? OR SENT OR TRANSFER?)
S2	2741523	PACKET? ? OR BURST? ? OR FRAME? ? OR DATAGRAM? ? OR ATM OR ASYNCHRONOUS()TRANSFER()MODE OR UNIT OR APDU
S3	9192031	ACTIVAT? OR START? OR BEGIN? OR ON OR START??? OR INITIAT?- ?? OR INAUGURAT???
S4	3695784	HALT??? OR END??? OR TERMINAT??? OR STOP? ? OR STOPPING OR OFF
S5	3211068	RECORD? ? OR BIT OR BITS OR BYTE OR BYTES OR CODE? ? OR ID- ENTIF??? OR SIGNAL? OR LABEL??? OR INDICAT?
S6	733749	CELL OR CELLULAR OR CORDLESS OR WIRELESS OR RADIO OR RADIO OR BLUETOOTH OR WAP OR HDML OR WIFI OR WI()FI OR 3G
S7	221733	S3(2W)S5
S8	52409	S4(2W)S5
S9	9301	S7(10N)S8
S10	50148	S1(5N)S2
S11	59	S9(S)S10
S12	4	S6(S)S11
S13	232914	IC=G06F-017?
S14	1	S11 AND S13
S15	5	S12 OR S14
S16	6	S6 AND S11
S17	7	S14 OR S16
S18	916	S10(S)(S3(10N)S4)
S19	245	S10(10N)(S3(5N)S4)
S20	7	S6(10N)S19
S21	14	S6(S)S19
S22	19	S17 OR S21
S23	19	IDPAT (sorted in duplicate/non-duplicate order)
S24	19	IDPAT (primary/non-duplicate records only)

24/3,K/1 (Item 1 from file: 351)  
DIALOG(R)File 351:Derwent WPI  
(c) 2003 Thomson Derwent. All rts. reserv.

015355692 \*\*Image available\*\*  
WPI Acc No: 2003-416630/200339  
XRPX Acc No: N03-332097

**Information processing apparatus e.g. personal computer recognizes timing of input of ON-OFF commands and transmits recognized timings information to other information processing apparatus through Bluetooth network**

Patent Assignee: SONY CORP (SONY ); MATSUNO K (MATS-I)  
Inventor: MATSUNO K

Number of Countries: 003 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030005085	A1	20030102	US 2002174094	A	20020617	200339 B
KR 2002096946	A	20021231	KR 200233659	A	20020617	200339
JP 2002374261	A	20021226	JP 2001183315	A	20010618	200340

Priority Applications (No Type Date): JP 2001183315 A 20010618

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030005085	A1		36	G06F-015/16	
KR 2002096946	A			H04B-007/00	
JP 2002374261	A		28	H04L-012/28	

Abstract (Basic):

... input unit inputs ON-OFF command. A recognition unit recognizes the timing of input of **ON - OFF** commands. A transmission **unit transmits** the timing **information** to other information processing apparatus such as cam-coder (2) through **Bluetooth** network.

24/3,K/2 (Item 2 from file: 351)  
DIALOG(R)File 351:Derwent WPI  
(c) 2003 Thomson Derwent. All rts. reserv.

014789780 \*\*Image available\*\*  
WPI Acc No: 2002-610486/200266  
XRPX Acc No: N02-483468

**Wireless data packet transmission method involves determining whether data has been transmitted based on status of flag at the end of prescribed time interval set by timer**

Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU )  
Inventor: PARK J; PARK J H

Number of Countries: 030 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1231736	A2	20020814	EP 2001309845	A	20011122	200266 B
US 20020111178	A1	20020815	US 200266681	A	20020206	200266
JP 2002262361	A	20020913	JP 2001376408	A	20011210	200276
CN 1368798	A	20020911	CN 2001138594	A	20011119	200282
KR 2002066294	A	20020814	KR 20016519	A	20010209	200310

Priority Applications (No Type Date): KR 20016519 A 20010209

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1231736	A2	E	9	H04L-001/18	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
US 20020111178	A1			H04B-007/00	
JP 2002262361	A		6	H04Q-007/38	
CN 1368798	A			H04B-007/00	
KR 2002066294	A			H04B-007/26	

Wireless data packet transmission method involves determining

whether data has been transmitted based on status of flag at the  
end of prescribed time interval set by timer

24/3,K/6 (Item 6 from file: 351)  
DIALOG(R)File 351:Derwent WPI  
(c) 2003 Thomson Derwent. All rts. reserv.

013870336 \*\*Image available\*\*  
WPI Acc No: 2001-354548/200137  
XRPX Acc No: N01-257621

Method for transfer time optimization between handheld wireless devices  
sends data packets with tokens with each transaction encoded with  
Begin and End tokens so receiver detects when transmission is  
successfully completed

Patent Assignee: BONITA SOFTWARE INC (BONI-N)  
Inventor: MAHONEY M M; POOR G V  
Number of Countries: 093 Number of Patents: 002  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200111473	A1	20010215	WO 2000US21906	A	20000810	200137 B
AU 200066307	A	20010305	AU 200066307	A	20000810	200137

Priority Applications (No Type Date): US 99148161 P 19990810  
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200111473	A1	E	31	G06F-013/00	
Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW					
AU 200066307	A			G06F-013/00	Based on patent WO 200111473

Method for transfer time optimization between handheld wireless devices  
sends data packets with tokens with each transaction encoded with  
Begin and End tokens so receiver detects when transmission is  
successfully completed

24/3,K/8 (Item 8 from file: 351)  
DIALOG(R)File 351:Derwent WPI  
(c) 2003 Thomson Derwent. All rts. reserv.

011762871 \*\*Image available\*\*  
WPI Acc No: 1998-179781/199816  
XRPX Acc No: N98-142216

Automatic fragmentation method for frame relay communications network -  
using fragmentation and reassembly element for fragmenting variable  
length frames of user data into packets of predefined length using ATM  
AAL5 segmentation and reassembly to construct cells

Patent Assignee: CISCO SYSTEMS INC (CISC-N); CISCO TECHNOLOGY INC (CISC-N)  
Inventor: LAND R A; RUMER M; SIMON R; SWANSON D E  
Number of Countries: 078 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9809410	A1	19980305	WO 97US15287	A	19970828	199816 B
AU 9742424	A	19980319	AU 9742424	A	19970828	199831
US 5987034	A	19991116	US 96705236	A	19960830	200001

Priority Applications (No Type Date): US 96705236 A 19960830  
Patent Details:  
Patent No Kind Lan Pg Main IPC Filing Notes  
WO 9809410 A1 E 15 H04L-012/56

Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU  
 CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU  
 LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA  
 UG UZ VN YU ZW  
 Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GH GR IE IT  
 KE LS LU MC MW NL OA PT SD SE SZ UG ZW  
 AU 9742424 A H04L-012/56 Based on patent WO 9809410  
 US 5987034 A H04L-012/56

...Abstract (Basic): segmenting comprises ATM AAL5 methodologies. The header comprises virtual circuit information, payload type information and cell loss priority information. The transmitting step comprises appending beginning-of-frame, end-of-frame and error detection information to the packet and transmitting the packet across the...

24/3,K/9 (Item 9 from file: 351)  
 DIALOG(R)File 351:Derwent WPI  
 (c) 2003 Thomson Derwent. All rts. reserv.

010215291 \*\*Image available\*\*  
 WPI Acc No: 1995-116545/199516  
 XRPX Acc No: N95-091958

Management of exchange resources in async. transfer communication systems  
 - transmitting information in cell packets with start and end data to control coupling field

Patent Assignee: SIEMENS AG (SIEI )  
 Inventor: HUENLICH K  
 Number of Countries: 007 Number of Patents: 004  
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4343991	C1	19950323	DE 4343991	A	19931222	199516 B
EP 661899	A2	19950705	EP 94119410	A	19941207	199531
EP 661899	A3	19961016	EP 94119410	A	19941207	199648
EP 661899	B1	20020502	EP 94119410	A	19941207	200230

Priority Applications (No Type Date): DE 4343991 A 19931222

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 4343991	C1	6	H04L-012/56	
EP 661899	A2 G	7	H04Q-011/04	
Designated States (Regional): AT CH FR GB IT LI				
EP 661899	A3		H04L-012/56	
EP 661899	B1 G		H04Q-011/04	
Designated States (Regional): AT CH FR GB IT LI				

... transmitting information in cell packets with start and end data to control coupling field

24/3,K/17 (Item 17 from file: 347)  
 DIALOG(R)File 347:JAPIO  
 (c) 2003 JPO & JAPIO. All rts. reserv.

06236004 \*\*Image available\*\*  
 ATM CELL TRANSFERRING SYSTEM

PUB. NO.: 11-177575 [JP 11177575 A]  
 PUBLISHED: July 02, 1999 (19990702)  
 INVENTOR(s): SAKATA SHUJI  
 SAGAWA YUICHI  
 APPLICANT(s): NEC CORP  
 NIPPON TELEGR & TELEPH CORP <NTT>  
 APPL. NO.: 09-352202 [JP 97352202]



FILED: December 05, 1997 (19971205)

ATM CELL TRANSFERRING SYSTEM

ABSTRACT

PROBLEM TO BE SOLVED: To provide an ATM **cell** transferring system reducing the power consumption of the whole device at the time of detecting an effective **cell** by detecting the presence/absence of the effective **cell** at a transmitting buffer.

SOLUTION: The system is provided with a transmission buffer writing control  
...

... a burst processing part 150 informing the part 140 of a burst reading timing, a **radio** burst data working part 160 and a burst transmission processing part 170 executing the **sending** /stopping of **burst data** . The part 140 is provided with a processing deciding part 190 which detects the presence/absence of the effective **cell** at the head of the time of reading the ATM **cell** and reading a burst and receives information of the detection of the presence/absence of the effective **cell** to execute processing **starting indication** or **stopping indication** to the parts 160 and 170, and the part 160 is provided with a means...

**24/AY,AZ,TI/1 (Item 1 from file: 351)**

DIALOG(R)File 351:(c) 2003 Thomson Derwent. All rts. reserv.

015355692

**Information processing apparatus e.g. personal computer recognizes timing of input of ON-OFF commands and transmits recognized timings information to other information processing apparatus through Bluetooth network**

Local Applications (No Type Date): US 2002174094 A 20020617; KR 200233659 A 20020617; JP 2001183315 A 20010618

Priority Applications (No Type Date): JP 2001183315 A 20010618

**24/AY,AZ,TI/2 (Item 2 from file: 351)**

DIALOG(R)File 351:(c) 2003 Thomson Derwent. All rts. reserv.

014789780

**Wireless data packet transmission method involves determining whether data has been transmitted based on status of flag at the end of prescribed time interval set by timer**

Local Applications (No Type Date): EP 2001309845 A 20011122; US 200266681 A 20020206; JP 2001376408 A 20011210; CN 2001138594 A 20011119; KR 20016519 A 20010209

Priority Applications (No Type Date): KR 20016519 A 20010209

**24/AY,AZ,TI/3 (Item 3 from file: 351)**

DIALOG(R)File 351:(c) 2003 Thomson Derwent. All rts. reserv.

014591870

**Method and device for transmitting digital information in radio link using pseudorandom operating-frequency control**

Local Applications (No Type Date): RU 99123808 A 19991110

Priority Applications (No Type Date): RU 99123808 A 19991110

**24/AY,AZ,TI/4 (Item 4 from file: 351)**

DIALOG(R)File 351:(c) 2003 Thomson Derwent. All rts. reserv.

014349361

**Automatic illumination control system using post office code standardization advisory group system**

Local Applications (No Type Date): KR 200013429 A 20000316

Priority Applications (No Type Date): KR 200013429 A 20000316

**24/AY,AZ,TI/5 (Item 5 from file: 351)**

DIALOG(R)File 351:(c) 2003 Thomson Derwent. All rts. reserv.

013935616

**Emergency stop control information transmitting method for mobile communication system, involves controlling data transmitted through uplink common packet channel by user equipment based on transmitted bit pattern**

Local Applications (No Type Date): EP 2000125822 A 20001124; JP 2000358551 A 20001124; CN 2000133334 A 20001124; KR 9952458 A 19991124

Priority Applications (No Type Date): KR 9952458 A 19991124

**24/AY,AZ,TI/6 (Item 6 from file: 351)**

DIALOG(R)File 351:(c) 2003 Thomson Derwent. All rts. reserv.

013870336

**Method for transfer time optimization between handheld wireless devices sends data packets with tokens with each transaction encoded with Begin and End tokens so receiver detects when transmission is**

successfully completed

Local Applications (No Type Date): WO 2000US21906 A 20000810; AU 200066307  
. A 20000810

Priority Applications (No Type Date): US 99148161 P 19990810

24/AY,AZ,TI/7 (Item 7 from file: 351)

DIALOG(R)File 351:(c) 2003 Thomson Derwent. All rts. reserv.

011935384

Wireless information input device with power supply control function e.g.  
keyboard, mouse connected to PC - controls power supply by side of  
information processing terminal using communication unit which performs  
wireless transmission of data

Local Applications (No Type Date): JP 96305804 A 19961031

Priority Applications (No Type Date): JP 96305804 A 19961031

24/AY,AZ,TI/8 (Item 8 from file: 351)

DIALOG(R)File 351:(c) 2003 Thomson Derwent. All rts. reserv.

011762871

Automatic fragmentation method for frame relay communications network -  
using fragmentation and reassembly element for fragmenting variable  
length frames of user data into packets of predefined length using ATM  
AAL5 segmentation and reassembly to construct cells

Local Applications (No Type Date): WO 97US15287 A 19970828; US 96705236 A  
19960830; AU 9742424 A 19970828

Priority Applications (No Type Date): US 96705236 A 19960830

24/AY,AZ,TI/9 (Item 9 from file: 351)

DIALOG(R)File 351:(c) 2003 Thomson Derwent. All rts. reserv.

010215291

Management of exchange resources in async. transfer communication systems  
- transmitting information in cell packets with start and end  
data to control coupling field

Local Applications (No Type Date): DE 4343991 A 19931222; EP 94119410 A  
19941207; EP 94119410 A 19941207; EP 94119410 A 19941207

Priority Applications (No Type Date): DE 4343991 A 19931222

24/AY,AZ,TI/10 (Item 10 from file: 351)

DIALOG(R)File 351:(c) 2003 Thomson Derwent. All rts. reserv.

009686805

Wireless signalling apparatus esp. for operating single device from  
several remote controllers - has two transmitters sending serial  
data frames including identification information and bit strings with  
start, stop and parity bits

Local Applications (No Type Date): JP 9274489 A 19920330; US 9326849 A  
19930305

Priority Applications (No Type Date): JP 9274489 A 19920330

24/AY,AZ,TI/11 (Item 11 from file: 351)

DIALOG(R)File 351:(c) 2003 Thomson Derwent. All rts. reserv.

009662099

Radio guiding system for museum providing audio information in  
different zones - has transmitter transmitting packet having data  
affixed to start and end data repeatedly, receiver contg.  
demodulating decoding circuit, packet detector and memory NoAbstract

Local Applications (No Type Date): JP 9251782 A 19920310

Priority Applications (No Type Date): JP 9251782 A 19920310

**24/AY,AZ,TI/12 (Item 12 from file: 351)**  
DIALOG(R)File 351:(c) 2003 Thomson Derwent. All rts. reserv.

007768629

Selectively called receiver for producing bell sound - sets reference level and generates ringing tone related to battery checking with different timings for stabilising reference level  
Local Applications (No Type Date): EP 88306980 A 19880728; JP 87189955 A 19870729; US 88223983 A 19880725; EP 88306980 A 19880728; DE 3886294 A 19880728; EP 88306980 A 19880728  
Priority Applications (No Type Date): JP 87189955 A 19870729

**24/AY,AZ,TI/13 (Item 13 from file: 347)**  
DIALOG(R)File 347:(c) 2003 JPO & JAPIO. All rts. reserv.

06981645

IMAGE FORMING DEVICE AND ITS DEVICE UNIT

**24/AY,AZ,TI/14 (Item 14 from file: 347)**  
DIALOG(R)File 347:(c) 2003 JPO & JAPIO. All rts. reserv.

06801140

MOBILE RADIO UNIT

**24/AY,AZ,TI/15 (Item 15 from file: 347)**  
DIALOG(R)File 347:(c) 2003 JPO & JAPIO. All rts. reserv.

06447055

INDIVIDUAL INFORMATION COLLECTING METHOD FOR PLURAL STEEL TOWERS FOR TRANSMISSION LINE, AND INDIVIDUAL INFORMATION COLLECTING EQUIPMENT OF STEEL TOWERS FOR TRANSMISSION LINE

**24/AY,AZ,TI/16 (Item 16 from file: 347)**  
DIALOG(R)File 347:(c) 2003 JPO & JAPIO. All rts. reserv.

06413619

METHOD AND SYSTEM FOR RADIO DATA COMMUNICATION

**24/AY,AZ,TI/17 (Item 17 from file: 347)**  
DIALOG(R)File 347:(c) 2003 JPO & JAPIO. All rts. reserv.

06236004

ATM CELL TRANSFERRING SYSTEM

**24/AY,AZ,TI/18 (Item 18 from file: 347)**  
DIALOG(R)File 347:(c) 2003 JPO & JAPIO. All rts. reserv.

05808395

DISTRIBUTED DATABASE ACCESS DEVICE AND RECORDING MEDIUM RECORDING ITS PROCESSING PROGRAM

**24/AY,AZ,TI/19 (Item 19 from file: 347)**  
DIALOG(R)File 347:(c) 2003 JPO & JAPIO. All rts. reserv.

00975241

RADIO CALLING METHOD

?show files;ds

File 348:EUROPEAN PATENTS 1978-2003/Jul W03

(c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20030807,UT=20030731

(c) 2003 WIPO/Univentio

Set	Items	Description
S1	179793	(RECORD? ? OR DATA OR FILE? ? OR INFORMATION OR INFO OR BL- OCK? ?) (3N) (TRANSMIT? OR TRANSMISSION? ? OR SEND??? OR RELAY?- ?? OR SENT OR TRANSFER?)
S2	677697	PACKET? ? OR BURST? ? OR FRAME? ? OR DATAGRAM? ? OR ATM OR ASYNCHRONOUS()TRANSFER()MODE OR UNIT OR APDU
S3	41828	S1(5N)S2
S4	1276665	HALT??? OR END??? OR TERMINAT??? OR STOP? ? OR STOPPING OR OFF
S5	1005305	RECORD? ? OR BIT OR BITS OR BYTE OR BYTES OR CODE? ? OR ID- ENTIF??? OR SIGNAL? OR LABEL??? OR INDICAT? OR TOKEN?
S6	378627	CELL OR CELLULAR OR CORDLESS OR WIRELESS OR RADIO OR RADIO OR BLUETOOTH OR WAP OR HDML OR WIFI OR WI()FI OR 3G
S7	55397	S4(2W)S5
S8	256665	S5(2N) (ACTIVAT? OR BEGIN? OR ON OR START??? OR INITIAT??? - OR INAUGURAT???)
S9	269	S3(S) (S7(10N)S8)
S10	80	S3(10N) (S7(7N)S8)
S11	10	S6(S)S10
S12	87638	S2(S)S6
S13	126	S12(10N) (S7(7N)S8)
S14	31	S1(S)S13
S15	37594	IC=G06F-017?
S16	0	S14 AND S15
S17	109132	IC=G06F?
S18	2	S14 AND S17
S19	13725	S1(10N)S12
S20	7	S19(10N) (S7(7N)S8)
S21	8	S18 OR S20
S22	8	IDPAT (sorted in duplicate/non-duplicate order)
S23	8	IDPAT (primary/non-duplicate records only)

23/3,K/2 (Item 2 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2003 European Patent Office. All rts. reserv.

00363103

**Communication system.**

**Kommunikationssystem.**

**Systeme de communication.**

PATENT ASSIGNEE:

BRITISH TELECOMMUNICATIONS public limited company, (846100), 81 Newgate Street, London EC1A 7AJ, (GB), (applicant designated states: AT;BE;CH;DE;ES;FR;GB;GR;IT;LI;LU;NL;SE)

INVENTOR:

Adams, John Leonard, 24 Keswick Close Felixstowe, Suffolk IP11 9NZ, (GB)

LEGAL REPRESENTATIVE:

Roberts, Simon Christopher et al (55342), BT Group Legal Services, Intellectual Property Department, 151 Gower Street, London, WC1E 6BA, (GB)

PATENT (CC; No, Kind, Date): EP 337619 A1 891018 (Basic)  
EP 337619 B1 931013

APPLICATION (CC, No, Date): EP 89302818 890321;

PRIORITY (CC, No, Date): GB 8807050 880324

DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; GR; IT; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS: H04B-007/24; H04B-010/00;

ABSTRACT WORD COUNT: 114

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS B	(English)	EPBBF1	3148
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CLAIMS B	(German)	EPBBF1	1899
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CLAIMS B	(French)	EPBBF1	2229
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SPEC B	(English)	EPBBF1	5317
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Total word count - document A	0
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Total word count - document B	12593
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Total word count - documents A + B	12593
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...SPECIFICATION transmit) set to the customer to be measured. A continuous train of such cells are sent from block 70 of Figure 6 from the exchange end throughout the measurement period. This mode of operation is required so that the local exchange end can adjust the delay in the round trip path to ensure that upstream cells from different...

23/3,K/3 (Item 3 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2003 European Patent Office. All rts. reserv.

00193480

**CELLULAR VOICE AND DATA RADIOTELEPHONE SYSTEM.**

**CELLULARES STIMME- UND DATENFUNKFERNUBERTRAGUNGSSYSTEM.**

**SYSTEME RADIOTELEPHONIQUE CELLULAIRE DE TRANSMISSION VOCALE ET DE DONNEES.**

PATENT ASSIGNEE:

MOTOROLA, INC., (205770), 1303 East Algonquin Road, Schaumburg, IL 60196, (US), (applicant designated states: AT;BE;CH;DE;FR;GB;IT;LI;NL;SE)

INVENTOR:

LABEDZ, Gerald, P., 7406 N. Talman, Chicago, IL 60645, (US)

BONTA, Jeffery, D., 309 S. Wapella, Mount Prospect, IL 60056, (US)

SCHAEFFER, Dennis, R., 266 Mohawk Trail, Buffalo Grove, IL 60090, (US)

TELL, Daniel, F., 1112 Laurel, Deerfield, IL 60015, (US)

LEV, Valy, 938 Cardiff Court, Schaumburg, IL 60194, (US)

LEGAL REPRESENTATIVE:

Hudson, Peter David (52402), Motorola European Intellectual Property

Midpoint Alencon Link, Basingstoke Hampshire RG21 1PL, (GB)

Ibbotson, Harold (45963), Motorola European Intellectual Property

Midpoint Alencon Link, Basingstoke Hampshire RG 21 1PL, (GB)  
 PATENT (CC, No, Kind, Date): EP 188554 A1 860730 (Basic)  
 EP 188554 A1 861230  
 EP 188554 B1 891108  
 WO 8600775 860130  
 APPLICATION (CC, No, Date): EP 85903622 850709; WO 85US1302  
 PRIORITY (CC, No, Date): US 630481 840713  
 DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IT; LI; NL; SE  
 INTERNATIONAL PATENT CLASS: H04Q-007/22  
 NOTE:

No A-document published by EPO  
 LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB95	1312
CLAIMS B	(German)	EPAB95	1372
CLAIMS B	(French)	EPAB95	1691
SPEC B	(English)	EPAB95	8590
Total word count - document A			0
Total word count - document B			12965
Total word count - documents A + B			12965

...SPECIFICATION achieve the proper data rate, the BSC must insert and strip off, where appropriate, the **start** and **stop bits** and the parity bits of the asynchronous cellular telephone data stream. The BSC also continually...frames, in both directions of the data stream at 1307 to be sure that both **data** terminals have ceased **transmitting**. Upon detection of the predetermined number of null **frames**, the CSE transmits an acknowledgement at 1309 which confirms the reception of the handoff command. The control **frame transmitted** in **data** mode on the forward voice channel is shown in Figure 14a and its acknowledgement from...and decode user generated data into and from the forward signalling channel data. Parity and **start / stop bits** must be added and removed from the data stream. Additionally, control commands must be inserted...

23/3,K/6 (Item 6 from file: 349)  
 DIALOG(R)File 349:PCT FULLTEXT  
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00777945 \*\*Image available\*\*

**TRANSFER TIME OPTIMIZATION BETWEEN HANDHELD WIRELESS DEVICES**  
**OPTIMISATION DU TEMPS DE PASSAGE ENTRE DES DISPOSITIFS SANS FIL PORTABLES**  
 Patent Applicant/Assignee:

BONITA SOFTWARE INC, Suite 200, 20 Market Plaza, Raleigh, NC 27601, US,  
 US (Residence), US (Nationality)

Inventor(s):

MAHONEY Margaret M, 602 East Lane Street, Raleigh, NC 27601, US  
 POOR Graham V, 602 East Lane Street, Raleigh, NC 27601, US

Legal Representative:

KIRSCH Gregory J, Needle & Rosenberg, P.C., The Candler Building, Suite 1200, 127 Peachtree Street, N.E., Atlanta, GA 30303-1811, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200111473 A1 20010215 (WO 0111473)  
 Application: WO 2000US21906 20000810 (PCT/WO US0021906)  
 Priority Application: US 99148161 19990810

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ  
 DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ  
 LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG  
 SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW  
 (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
 (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
 (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
 (EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English



Main International Patent Class: G06F-013/00  
Fulltext Availability:  
Claims

Claim

1 . A method for **transmitting information** from a handheld wireless sender to a remote receiver, comprising:  
entering said information into a change **record** in said **sender** ;  
detecting in said sender an indication of a wireless connection between said sender and said receiver;  
grouping into packets information in said change record;  
grouping said **packets** in said sender into semantically unitary transactions  
having **begin** and **end tokens** delimiting each transaction;  
constructing an actual transfer script in said sender having at least one transaction and having **begin** and **end tokens** delimiting said transfer script; constructing a skeletal transfer script mirroring said actual transfer script but not having said **packets** , said skeletal transfer script having **begin** and **end tokens** delimiting said skeletal transfer script;  
wirelessly beginning transmitting said skeletal transfer script from said sender...

...wireless connection between said sender and said receiver;  
wirelessly receiving a skeletal transfer script having **begin** and **end tokens** delimiting each transaction of an actual transfer script having at least one transaction; wirelessly transmitting...

...said skeletal transfer script;  
wirelessly receiving said actual transfer script, said actual transfer script having **begin** and **end tokens** delimiting each transaction in said actual transfer script; building a **transfer record** having indications of receipt of each data **packet** of a transaction having at least one data packet and indications of receipt of each **begin token** and **end token** ;  
in response to receipt of an end token following a received data packet, committing said...

...to receipt of a token indicating an end of an actual transfer script, comparing said **transfer record** to said skeletal **transfer** script; and  
wirelessly transmitting a token indicating receipt of said actual transfer script if 'd **transfer record** matches said skeletal **transfer** script.

sal

5 . A system for **transmitting information** in a handheld wireless sender device to a receiver device, comprising:  
a change record controller...

...change record memory area in which said information is storable prior to transmission from said **sender** device; a **data transfer** controller grouping **information** in said change record memory area into **packets** , grouping said **packets** into semantically unitary transactions having **begin** and **end tokens** indicating a **beginning** and end of a transaction, constructing an actual transfer script having at least one transaction...

...wirelessly transmitting a skeletal transfer script mirroring said actual transfer script but not having said **packets**, said skeletal transfer script having **begin** and **end** tokens indicating a **beginning** and end of said skeletal transfer script; and an actual transfer script controller wirelessly beginning...

23/3,K/7 (Item 7 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00427781 \*\*Image available\*\*

**METHOD AND EQUIPMENT FOR TRANSMITTING TERMINAL INTERFACE USER DATA AND STATUS INFORMATION**

**PROCEDE ET EQUIPEMENT PERMETTANT LA TRANSMISSION DE DONNEES UTILISATEUR ET D'INFORMATIONS D'ETAT LIEES A L'INTERFACE DE TERMINAL**

Patent Applicant/Assignee:

NOKIA TELECOMMUNICATIONS OY,  
RASANEN Juha,

Inventor(s):

RASANEN Juha,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9818244 A2 19980430

Application: WO 97FI633 19971017 (PCT/WO FI9700633)

Priority Application: FI 964204 19961018

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES  
FI GB GE GH HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK  
MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN  
YU ZW GH KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK  
ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN  
TD TG

Publication Language: English

Fulltext Word Count: 8064

Fulltext Availability:

Detailed Description

Detailed Description

... such as the redundant parts of the protocol data units of user data or the **start** and **stop bit** positions of asynchronous data characters. The overhead information does thus not increase the number of...such as the redundant parts of the protocol data units of user data or the **start** and **stop bits** of asynchronous data characters. A 'superframe' in turn is a unit comprising two or more...25 or, in facsimile transmission, a protocol according to ITU-T T

In the GSM, **data** is typically **transmitted** in TRAU **data frames** between the base station BTS and a specific transcoder **unit** TRCU 1 5 (Transcoder/Rate Adaptor Unit) in the network. At present, the TRAU data...n+1 0). The start of the superframe is indicated by setting '0' as the **start bit** in the first five subframes, and the **end** is indicated by setting '1' in the last six subframes.

Fig. 5 illustrates a second example, in...example the redundant parts of the protocol data units of user data or in the **start** and **stop bit** positions of asynchronous data characters. For example, in the TRAU **frame** of Fig. 3 the terminal interface statuses and other control **information** are **transmitted** transparently within the **data** stream in data fields D1 to D576, and the control bit positions of the TRAU...

23/AY,AZ,TI/1 (Item 1 from file: 348)  
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00721175

A TELEPHONE COMMUNICATION SYSTEM HAVING A LOCATOR  
TELEFONKOMMUNIKATIONSSYSTEM MIT EINEM LOKALISIERER  
SYSTEME DE LIAISONS TELEPHONIQUES COMPORTANT UN DISPOSITIF DE LOCALISATION  
APPLICATION (CC, No, Date): EP 95911970 950227; WO 95US2441 950227  
PRIORITY (CC, No, Date): US 203340 940228; US 369184 950105

23/AY,AZ,TI/2 (Item 2 from file: 348)  
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00363103

Communication system.  
Kommunikationssystem.  
Systeme de communication.  
APPLICATION (CC, No, Date): EP 89302818 890321;  
PRIORITY (CC, No, Date): GB 8807050 880324

23/AY,AZ,TI/3 (Item 3 from file: 348)  
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00193480

CELLULAR VOICE AND DATA RADIOTELEPHONE SYSTEM.  
CELLULARES STIMME- UND DATENFUNKFERNUBERTRAGUNGSSYSTEM.  
SYSTEME RADIOTELEPHONIQUE CELLULAIRE DE TRANSMISSION VOCALE ET DE DONNEES.  
APPLICATION (CC, No, Date): EP 85903622 850709; WO 85US1302  
PRIORITY (CC, No, Date): US 630481 840713

23/AY,AZ,TI/4 (Item 4 from file: 349)  
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00994631

BAR CODE SYMBOL READING DEVICE HAVING INTELLIGENT DATA COMMUNICATION  
INTERFACE TO A HOST SYSTEM  
DISPOSITIF DE LECTURE DE CODE A BARRES COMPORTANT UNE INTERFACE  
INTELLIGENTE DE COMMUNICATION DE DONNEES AVEC UN SYSTEME HOTE  
Application: WO 2002US30061 20020923

23/AY,AZ,TI/5 (Item 5 from file: 349)  
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00884978

TOUCH PAD SYSTEM  
SYSTEME DE BLOC A EFFLEUREMENT  
Application: WO 2001KR1307 20010801

23/AY,AZ,TI/6 (Item 6 from file: 349)  
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00777945

TRANSFER TIME OPTIMIZATION BETWEEN HANDHELD WIRELESS DEVICES  
OPTIMISATION DU TEMPS DE PASSAGE ENTRE DES DISPOSITIFS SANS FIL PORTABLES  
Application: WO 2000US21906 20000810

23/AY,AZ,TI/7 (Item 7 from file: 349)  
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00427781

METHOD AND EQUIPMENT FOR TRANSMITTING TERMINAL INTERFACE USER DATA AND  
STATUS INFORMATION

PROCEDE ET EQUIPEMENT PERMETTANT LA TRANSMISSION DE DONNEES UTILISATEUR ET  
D'INFORMATIONS D'ETAT LIEES A L'INTERFACE DE TERMINAL

Application: WO 97FI633 19971017

23/AY,AZ, TI/8 (Item 8 from file: 349)

DIALOG(R) File 349: (c) 2003 WIPO/Univentio. All rts. reserv.

00393678

DATA TRANSMISSION USING ATM OVER HYBRID FIBER COAX

TRANSMISSION DE DONNEES MODE EN MTA SUR FIBRES COAXIALES HYBRIDES

Application: WO 97US3984 19970312

```
?show files;ds
File 2:INSPEC 1969-2003/Aug W1
  (c) 2003 Institution of Electrical Engineers
File 35:Dissertation Abs Online 1861-2003/Jul
  (c) 2003 ProQuest Info&Learning
File 65:Inside Conferences 1993-2003/Aug W2
  (c) 2003 BLDSC all rts. reserv.
File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Jun
  (c) 2003 The HW Wilson Co.
File 233:Internet & Personal Comp. Abs. 1981-2003/Jul
  (c) 2003, EBSCO Pub.
File 256:SoftBase:Reviews,Companies&Prods. 82-2003/Jul
  (c)2003 Info.Sources Inc
File 474:New York Times Abs 1969-2003/Aug 12
  (c) 2003 The New York Times
File 475:Wall Street Journal Abs 1973-2003/Aug 12
  (c) 2003 The New York Times
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
  (c) 2002 The Gale Group
```

Set	Items	Description
S1	100651	(RECORD? ? OR DATA OR FILE? ? OR INFORMATION OR INFO OR BL- OCK? ?) (3N) (TRANSMIT? OR TRANSMISSION? ? OR SEND??? OR RELAY?- ?? OR SENT OR TRANSFER?)
S2	637246	PACKET? ? OR BURST? ? OR FRAME? ? OR DATAGRAM? ? OR ATM OR ASYNCHRONOUS()TRANSFER()MODE OR UNIT OR APDU
S3	8818611	ACTIVAT? OR BEGIN? OR ON OR START??? OR INITIAT??? OR INAU- GURAT???
S4	1127907	HALT??? OR END??? OR TERMINAT??? OR STOP? ? OR STOPPING OR OFF
S5	2398525	RECORD? ? OR BIT OR BITS OR BYTE OR BYTES OR CODE? ? OR ID- ENTIF??? OR SIGNAL? ? OR LABEL??? OR INDICAT? OR TOKEN?
S6	772034	CELL OR CELLULAR OR CORDLESS OR WIRELESS OR RADIO OR RADIO OR BLUETOOTH OR WAP OR HDML OR WIFI OR WI()FI OR 3G
S7	52179	S3(2W)S5
S8	5459	S4(2W)S5
S9	353	S7(10N)S8
S10	3965	S1(5N)S2
S11	1	S9(S)S10
S12	0	S6(S)S11
S13	384	S10(10N)S6
S14	0	S9(S)S13
S15	0	S13(S)(S7(S)S8)
S16	34	S6(S)S9
S17	0	S16(S)(S1(S)S2)
S18	3	S16(10N)(S1 OR S2)
S19	31	S2(S)S9
S20	6	S6 AND S19
S21	7	S11 OR S18 OR S20
S22	7	S21 NOT PY>2000
S23	7	S22 NOT PD=20000617:20030930
S24	7	RD (unique items)

24/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

6451795 INSPEC Abstract Number: B2000-02-7410-004

**Title: Trigger control and fault reaction circuitry for the solid-state switch modulator deck at the MIT-Bates S-band transmitter**

Author(s): Campbell, R.; Hawkins, A.; North, W.; Solheim, L.; Wolcott, C.; Zolfaghari, A.

Conference Title: Proceedings of the 1999 Particle Accelerator Conference (Cat. No.99CH36366) Part vol.3 p.1515-17 vol.3

Editor(s): Luccio, A.; MacKay, W.

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 1999 Country of Publication: USA 5 vol. 3778 pp.

ISBN: 0 7803 5573 3 Material Identity Number: XX-1999-02781

U.S. Copyright Clearance Center Code: 0 7803 5573 3/99/\$10.00

Conference Title: Proceedings of the 1999 Particle Accelerator Conference

Conference Sponsor: IEEE Nucl & Plasma Sci. Soc.; American Phys. Soc.

Div. Phys. Beams

Conference Date: 27 March-2 April 1999 Conference Location: New York, NY, USA

Language: English

Subfile: B

Copyright 1999, IEE

...Abstract: state modulator that replaces the old vacuum-tube technology modulator. The old modulator used a **start signal** to commence its pulses and a separate **stop signal** to end its pulses. The new system uses a single gate signal to control the modulator pulse. The trigger control circuit is a stand-alone control **unit** that can operate in a local (manual) mode or a remote mode. In the local mode the **unit** uses its own oscillator to run the transmitter. In the remote mode the accelerator-control computer can turn triggers on or off (enable the triggers), can reset the **unit**, and can send the gate signal that triggers the modulator. There is no microprocessor fault...

... to light LEDs. The main accelerator-control microprocessor receives report signals from the trigger control **unit** to alert the accelerator operators to the status of the transmitter. The trigger control circuitry ...

...Descriptors: **radio** transmitters

24/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

6409142 INSPEC Abstract Number: B1999-12-6130C-018

**Title: High quality multi-rate CELP speech coding for wireless ATM networks**

Author(s): Beritelli, F.

Author Affiliation: Ist. di Inf. e Telecommun., Catania Univ., Italy

Conference Title: IEEE GLOBECOM 1998 (Cat. NO. 98CH36250) Part vol.3 p.1350-5 vol.3

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 1998 Country of Publication: USA 6 vol. (lxxii+lvi+3773) pp.

ISBN: 0 7803 4984 9 Material Identity Number: XX-1999-01287

U.S. Copyright Clearance Center Code: 0 7803 4984 9/99/\$10.00

Conference Title: IEEE GLOBECOM 1998

Conference Sponsor: IEEE; IEEE Commun. Soc.; ICC GLOBECOM

Conference Date: 8-12 Nov. 1998 Conference Location: Sydney, NSW, Australia

Language: English

Subfile: B

Copyright 1999, IEE

**Title: High quality multi-rate CELP speech coding for wireless ATM networks**

...Abstract: high perceptive quality, robustness to noisy environments and flexibility required by speech communications in the **wireless ATM** scenario. The codec, exploiting new robust algorithms for multilevel phonetic classification and efficient activity/inactivity...

... demonstrates that the multi-rate speech coder proposed is a promising coding approach for future **wireless ATM**-based networks in that it exploits the bit rate variability within talkspurts, thus guaranteeing, with the same average bit rate as an **on - off** speech **coder**, greater robustness to **packet** loss and therefore a better quality of service (QoS).

...Descriptors: packet **radio** networks...

...Identifiers: **wireless** ATM networks

**24/3,K/3 (Item 3 from file: 2)**

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

5507151 INSPEC Abstract Number: B9704-6150C-021

**Title: Performance evaluation of leaky bucket traffic shaping of on/off sources**

Author(s): Wittevrongel, S.; Bruneel, H.

Author Affiliation: Commun. Eng. Lab., Ghent Univ., Belgium

Conference Title: ITC Specialists Seminar on Control in Communications

p.189-200

Editor(s): Korner, U.

Publisher: Lund Inst. Technol., Lund Univ, Lund, Sweden

Publication Date: 1996 Country of Publication: Sweden 373 pp.

ISBN: 91 630 4804 3 Material Identity Number: XX96-02581

Conference Title: Proceedings of 10th ITC Specialist's Seminar on Control in Communications

Conference Date: 17-19 Sept. 1996 Conference Location: Lund, Sweden

Language: English

Subfile: B

Copyright 1997, IEE

Abstract: The **asynchronous transfer mode (ATM)** is considered to be the most promising transport method for broadband integrated services digital networks...

... which are both modeled as discrete-time finite-capacity queues. Cells are generated by a **bursty** on/off source, with geometric **on / off**-periods. **Tokens** are generated periodically. In principle, this queueing system can be analyzed by numerically solving a...

... obtained results include the distributions of the data-buffer and the token-pool occupancies, the **cell** loss ratio in the data buffer, the distribution of the **cell** waiting times in the shaper and the joint probability generating function of two consecutive interdeparture...

...Identifiers: **cell** loss ratio...

... cell. waiting times

**24/3,K/4 (Item 1 from file: 35)**

DIALOG(R)File 35:Dissertation Abs Online

(c) 2003 ProQuest Info&Learning. All rts. reserv.

773784 ORDER NO: AAD82-00386

**REGULATORY AND CODING POTENTIAL OF THE MOUSE MAMMARY TUMOR VIRUS GENOME**

Author: DONEHOWER, LAWRENCE ALLEN

Degree: PH.D.

Year: 1981

Corporate Source/Institution: THE GEORGE WASHINGTON UNIVERSITY (0075)

Source: VOLUME 42/10-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 3946. 185 PAGES

...structural basis of mouse mammary tumor virus (MMTV) integration and transcriptional regulation, DNA from a **cell** line derived from a C3H/HeN mouse mammary carcinoma was utilized to molecularly clone integrated MMTV proviruses and adjacent **cellular** sequences. The mammary carcinoma **cell** line, 34i, contained approximately 20-25 newly acquired proviruses through infection and at least three...

...nucleotide sequence of the long terminal redundancy (L.T.R.) of the exogenous and endogenous **Unit II** proviruses was determined. In addition, four 3' virus- **cell** joint regions representing four independent integration events were sequenced. There was no apparent sequence homology among the four **cellular** sequences and between the **cellular** sequences and MMTV sequences, confirming that there is no apparent **cellular** sequence specificity with respect to MMTV integration. Specificity of integration with respect to the viral...

...T.R. was 1323 base pairs in length. The position of possible RNA polymerase II **initiation** and **termination signals** in both L.T.R.s corresponded closely to the expected regions of viral RNA...

...models. Both exogenous and endogenous L.T.R.s contained a large translational open reading **frame**, with sufficient information for a protein of 198 and 199 amino acids, respectively.

To determine...

24/3,K/5 (Item 2 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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768987 ORDER NO: AAD82-01727

**A PHYSIOLOGICAL MORPHOLOGICAL STUDY OF NEURONAL PATHWAYS IN THE RABBIT RETINA**

Author: BLOOMFIELD, STEWART ALLEN

Degree: PH.D.

Year: 1981

Corporate Source/Institution: WASHINGTON UNIVERSITY (0252)

Source: VOLUME 42/08-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 3076. 293 PAGES

...Boycott et al., 1978).

A-type HCs, which accounted for over 75% of all horizontal **cell** recordings, displayed cone-dominated responses and large area summations between 1.5 to 2.0...

...that they have orientation biased receptive field properties. Physiological evidence for an orientation biased horizontal **cell** is presented in support of this notion.

A second part of this study investigated the...

...amacrine and ganglion cells were stained with HRP and analyzed by a computer Image Processing **Unit** to determine the level of dendritic stratification in the IPL. All ON cells displayed dendritic...

...IPL in either a bi-stratified or diffuse manner. These results indicate that relaying of **ON** and **OFF signals** occur at synapses which are spatially segregated in the IPL; **ON signals** are relayed in the inner 1/2 while **OFF signals** are relayed in the outer 1/3 of the inner plexiform layer. It is proposed...



...the IPL, irrespective of other morphological properties.

Finally, intracellular recordings from a rabbit Muller (glial) cell have been obtained and verified by HRP staining. The light-evoked responses of these cells...

24/3,K/6 (Item 1 from file: 99)  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2003 The HW Wilson Co. All rts. reserv.

1766541 H.W. WILSON RECORD NUMBER: BAST98012593  
**Transfer data frames over asynchronous RS-232C lines**  
Shenoy, S. K;  
EDN v. 43 (Jan. 15 '98) p. 96+  
DOCUMENT TYPE: Feature Article ISSN: 0012-7515

...ABSTRACT: a duration equal to or greater than a complete asynchronous character-transmission time, including the **start** and **stop bits**. The message information is sandwiched between 2 Break characters, and the associated **data - frame - transfer** code is provided.

24/3,K/7 (Item 1 from file: 474)  
DIALOG(R)File 474:New York Times Abs  
(c) 2003 The New York Times. All rts. reserv.

01164888 NYT Sequence Number: 050569820803  
**Erik Sandberg-Diment discusses personal computer display terminals in terms of picture elements, or pixels. Explains pixels, whose numbers determine sharpness of image resolution, require memory and on / off signal for each unit. Notes computer attached to standard television screen can have maximum of 256x192 pixels for display, while specially-designed computer screen can have up to 640x200 pixels. Points out pixel capacity is limited by space requirements for memory and by computing speed. Addresses possibilities for display colors. Photo (M.)**  
New York Times, Col. 3, Pg. 2, Sec. 3  
Tuesday August 3 1982

...elements, or pixels. Explains pixels, whose numbers determine sharpness of image resolution, require memory and on / off signal for each unit. Notes computer attached to standard television screen can have maximum of 256x192 pixels for display...

DESCRIPTORS: PERSONAL COMPUTERS; DATA PROCESSING EQUIPMENT; TELEVISION AND RADIO ; COLOR

```
?show files;ds
File 13:BAMP 2003/Jul W4
  (c) 2003 Resp. DB Svcs.
File 75:TGG Management Contents(R) 86-2003/Jul W4
  (c) 2003 The Gale Group
File 15:ABI/Inform(R) 1971-2003/Aug 13
  (c) 2003 ProQuest Info&Learning
File 16:Gale Group PROMT(R) 1990-2003/Aug 13
  (c) 2003 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2003/Aug 13
  (c)2003 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
  (c) 1999 The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2003/Aug 13
  (c) 2003 The Gale Group
File 621:Gale Group New Prod.Annou.(R) 1985-2003/Aug 13
  (c) 2003 The Gale Group
```

Set	Items	Description
S1	593730	(RECORD? ? OR DATA OR FILE? ? OR INFORMATION OR INFO OR BL- OCK? ?)(3N)(TRANSMIT? OR TRANSMISSION? ? OR SEND??? OR RELAY?- ?? OR SENT OR TRANSFER?)
S2	2769647	PACKET? ? OR BURST? ? OR FRAME? ? OR DATAGRAM? ? OR ATM OR ASYNCHRONOUS()TRANSFER()MODE OR UNIT OR APDU
S3	214216	ACTIVAT?
S4	8072573	HALT??? OR END??? OR TERMINAT??? OR STOP? ? OR STOPPING OR OFF
S5	6726177	RECORD? ? OR BIT OR BITS OR BYTE OR BYTES OR CODE? ? OR ID- ENTIF??? OR SIGNAL? ? OR LABEL??? OR INDICAT? OR TOKEN?
S6	2152235	CELL OR CELLULAR OR CORDLESS OR WIRELESS OR RADIO OR RADIO OR BLUETOOTH OR WAP OR HDML OR WIFI OR WI()FI OR 3G
S7	252511	(S3 OR BEGIN? OR ON OR START??? OR INITIAT??? OR INAUGURAT- ???) (2W)S5
S8	46309	S4(2W)S5
S9	2290	S7(10N)S8
S10	30944	S1(5N)S2
S11	11	S9(S)S10
S12	2	S6(S)S11
S13	25	S6 AND S9 AND S10
S14	4	S6-AND-S11
S15	22	S13 NOT PY>2000
S16	22	S15 NOT PD=20000617:20030930
S17	19	RD (unique items)

17/3,K/1 (Item 1 from file: 15)  
DIALOG(R) File 15:ABI/Inform(R)  
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00977305 96-26698

Wireless **data facts and fiction**

Perkins, Herb

Communications v32n2 PP: 26-28 Feb 1995

ISSN: 0010-356X JRNL CODE: CMN

WORD COUNT: 2204

Wireless **data facts and fiction**

ABSTRACT: There is an apparent level of confusion within the **cellular** data user community on what some of the more common terms used in modem advertising mean. There is also some unjustified "hype" about **cellular** digital packet data (CDPD) and how it will change everything for the best in the world of **cellular** data. CDPD is not a data transfer or compression standard in the same sense that...

...protocols and modulation technologies would like to be the winner in the upcoming battle for **cellular** data users. To date, all competing data transfer technologies require some additional or new piece...

... send data. The exception, of course, is circuit switched data, or the use of a **cellular** modem and an existing telephone. Many assume that **cellular** is just like their land lines and that they can expect a 14.4 Kbit...

TEXT: As I visited **radio** data suppliers at a recent **wireless** data conference and listened to several presentations, I was initially amused and later amazed to...

...between communications software and hardware.

This became apparent during a presentation on data where CDPD ( **Cellular** Digital Packet Data) was discussed, when a question was asked concerning the use of a...

...explain that everyone knew that QAM CQAM is a modulation scheme) did not work over **cellular** but that MNP-10 did. He wanted the vendor to explain the differences.

The ensuing...

... user. However, it did point out there is an apparent level of confusion within the **cellular** data user community on what some of the more common terms used in modem advertising...

... about CDPD and how it will change everything for the best in the world of **cellular** data.

Let's first start with CDPD. It is not a data transfer or compression...

...protocols and modulation technologies would like to be the winner in the upcoming battle for **cellular** data users.

There is also a battle looming between modem giants like Microcom and AT...

... and a lot of research effort has gone into its new protocol ETC (Enhanced Throughput **Cellular** ). The users and extended field experience should sort out the winner in this race.

While...

... and DMS) has an advantage, what they do not have is compatibility with your existing **cellular** phone. To date, all competing data transfer

technologies require some additional or new piece of...

... exception, of course, is circuit switched data or, in simple terms, the use of a **cellular** modem and your existing phone.

This solution is promoted by modem manufacturers such as Microcom...

... tomorrow. There is, however, very little information about modems that can be used on a **cellular** system. Worse yet, there is quite a bit of confusion about what a modem should do.

I also think much of the confusion starts with the advertisements for **cellular** modems. Data compression is not generally referred to in any advertisement, however, MNP-10 is...

... to purchase one. They do not promise any level of performance, but readers assume that **cellular** is just like their land lines and that they can expect a 14.4 Kbit...

...set up to differentiate between bits within the character or byte.

For transmission over a **cellular radio** channel, data must be converted from a DC voltage into something that a **radio** can transmit. A modem is employed for that purpose. It will convert the DC voltage...

...stream from the computer to audio or AC that can be sent out on a **cellular radio** channel. This conversion process is where problems with **cellular** data begin.

What is a Modem?

A modem consists of several parts that each have...from the internal microprocessor and converts them to audio signals for actual transmission over a **cellular** telephone. The audio IN/OUT section is a simple matching section that makes sure the levels are set correctly for interface to the **cellular** phone.

The waveform generator can generate several different modulation signals depending on the standard selected...

... No error correction, but data is now simultaneously sent in both directions.

MNP 3--The **start** and **stop bits** are stripped by the sending modem and replaced by the receiving modem.

MNP 4--Some data compression. Uses adaptive **packet** assembly to **send** large **blocks** over a good telephone line and smaller ones over a noisy line. This means that...

... and encode two, three, four, or more bits per baud. This was done because the **radio** and the telephone line have a limited audio spectrum, which in turn limits the baud...

... that can support data transmission. If a modem exceeds the available bandwidth or spectrum, the **radio** or telephone line simply cuts off the signal and data cannot be detected reliably.

The...

...to detect errors, the Microcom Networking Protocol (MNP) is probably the best known in the **cellular** data users community. The MNP standards were developed in the 1980s to work with other...

... In competition to Microcom, AT&T Paradyne has developed a new software protocol, Enhanced Throughput **Cellular** (ETC), that it claims will improve throughput when used on a **cellular** phone. AT&T also claims that if an ETC

modem is used with a non...

... the actual waveform or audio signal that is used to transmit the data over the **cellular** phone or **radio** link. It is completely independent of the data compression system. The effect, however, is that compression techniques, the capabilities of the **cellular** data channel are stressed to the limit and beyond. This happens when the occupied bandwidth or spectrum of the waveform exceeds the capacity of the **cellular** channel. Because not all of the data reaches the receiver, errors are generated and data...

...not as complex and the data rate is lower.

Typically, this means that during a **cellular** connection the modem will operate at either 2400 bps or 4800 bps because the **cellular** channel cannot support higher data rates like 14.4 kbps. At these slower speeds, data compression and error control become very important in maintaining high data throughput.

As **cellular** data users move through the **wireless** data world, the common piece of hardware we all have to use is the humble...

... Herbert R. Perkins and Associates Inc., a Longwood, FL-based consulting firm that specializes in **radio** data systems. He can be contacted through fax at (407) 331-0893.

...DESCRIPTORS: **Wireless** networks...

... **Cellular** telephones

17/3,K/2 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00677253 93-26474  
**Mobile office primer**  
Macklenar, Tim  
Cellular Business v10n2 PP: 30-48 Feb 1993  
ISSN: 0741-6520 JRNL CODE: CLB  
WORD COUNT: 6490

ABSTRACT: A basic understanding of the modem is necessary if salespersons in the **cellular** industry want to help their customers make the best choice when selecting a modem. The...

... a full modem standard and includes forward error correcting and negotiation standards. Several vendors offer **cellular** modems that come prefigured so users do not have to be concerned about modem unit...

...TEXT: computing devices and they may even know that they can hook a computer to their **cellular** phones. The rest is a maze of questions for which you may struggle to provide...

...not techno-jocks or computer whizzes. They want the convenience that the personal computer and **cellular** phone bring, but they do not want the headaches. In fact, they want to tell...

... and want you to gather up parts, put them together and give them data over **cellular** .

The chances are not likely that we will see a punch-and-go type of...

... This multipart series on data addresses the fundamental theories and requirements for sending data over **cellular** . Part 1 explains the basics behind modems and the general differences between them. Part 2...

... such as parity, bits and ANSI And, Part 4 explains the basic operation of a **cellular** system and how to incorporate data communications.

#### PART 1 THE BASICS OF MODEMS

Baud, bits...

... concepts of data communications in the normal means and how to adapt them to the **cellular** environment.

#### GENERAL MODEM STANDARDS

If you have ever looked into buying a modem, you have...This allows the parity bit to become part of the data word.

\* Start and stop. **Start** and **stop bits** surround each character to form a "frame" so the receiving system knows when each complete character has been sent. The first bit is always the **start bit**, then the data bits are sent followed by the **stop bits**. There is always just one **start bit**, but there may be one, one and a half or two stop bits.

The multiple...

...electronic and not mechanical.

#### ASYNCHRONOUS VS. SYNCHRONOUS

In asynchronous communications, each character is surrounded with **start** and **stop bits**. This means that there can be pauses or voids in the datastream. The receiving side of the data knows when a character has been received because of the **start** and **stop bits**.

On the other hand, synchronous communications can not have any gap in the datastream because there is no **start** or **stop bits**. All of the characters must flow at a constant bit rate. When there are no...in coverage, signal fade and multiple RF paths can also affect data transmission.

\* Blank and **bursts**. The cell site normally sends a blank and burst to control the phone's power...efficient. It uses a synchronous, bit-oriented, full-duplex method. Eliminating the overhead of the **start** and **stop bits** used in the byte-oriented method, the improved procedure yields throughput 108% of that of...

... Packet Assembly and Data Phase Optimization techniques. Adaptive Packet Assembly means the size of the **packets** in which **data** is **sent** is changed depending on the quality of the call. Data Phase Optimization means that the...

...Channel Enhancements that optimize performance in environments with poor or varying line quality, such as **cellular**, international telephone systems and rural telephone service. There are three basic categories to MNP 10...

...Source Unknown.

Tutor, by Jeff Prosise, PC Magazine, December 25, 1990, Page 449-450.

Three **Cellular** Modems, by Alan A. Reiter & M. Keith Thompson, PC Magazine, December 25, 1990, Page 365-382.

Introduction to **Cellular** (AMPS)--Parts 1 and 2, Author Unknown, Marconi Instruments Technical Seminars.

EIA/TIA-553 Standard, September 1989, Published by Electronic Industries Association.

Macklenar is an RF **radio** engineer for NEC America, Richardson, TX.

...DESCRIPTORS: Cellular telephones

17/3,K/8 (Item 5 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

07826390 SUPPLIER NUMBER: 17000272 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Ease file transfers with IrDA-protocol wireless infrared. (Infrared Data Association; wireless file transfer medium) (includes related article)

Travis, Bill

EDN, v40, n7, p59(8)

March 30, 1995

ISSN: 0012-7515

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 3149

LINE COUNT: 00259

Ease file transfers with IrDA-protocol wireless infrared. (Infrared Data Association; wireless file transfer medium) (includes related article)

...ABSTRACT: Assn. (IrDA) protocol allow computer uses to transfer files from computer to computer in a **wireless** environment. Aside from the cost-savings and convenience it offers, the IrDA-protocol **wireless** infrared also features a physical layer design which allow it to achieve low-power consumption...

TEXT:

**Wireless** connectivity is an alluring concept. In transferring files from one machine to another, don't...

...machines. Infrared technology using IrDA (Infrared Data Association) protocols is rapidly gaining popularity as a **wireless** -transfer medium in the computer world. This article gives a quick overview of tile IrDA...

**Wireless** -IR, in general, and IrDA, in particular, are apt choices for file transfer. Cost and...

...pulse represents a zero and no pulse represents a one. A frame consists of a **start bit**, eight data bits, and a **stop bit**. A pulse width measures a minimum of 1.6 [micro]seconds to a maximum of...

...and removing connections and for discovering station device addresses; I (information) frames; and S (supervisory) **frames**, which assist in **information transfer**, acknowledge receipt of I **frames**, and convey ready and busy conditions.

IrLMP assumes the management of discovery, which occurs when...

...protocol [TABULAR DATA FOR TABLE 1 OMITTED] transfers are much easier to effect, thanks to **wireless** -IR software from Puma Technology. Bundled with Adaptec and IBM adapters, TranXit facilitates file transfers...

...PowerPro comes with an IrDA-compliant infrared adapter.

For those designers who wish to configure **wireless** -IR links, several building blocks are available (Table 1). You ...for infrared technology. Fig A describes three overlapping markets, referred to as the smart home, **cordless** connectivity, and **wireless** LAN, respectively. At the low end, we have IR remote controls with the promise of...

...networks and public-switched telephone networks (the information Superhighway).

At the high end, we have **wireless** LANs being driven by the trend toward personal mobility and the potential to re-engineer...

...the middle, we have the lure of hassle-free interconnections of devices and data interchange: **cordless** connectivity. The applications are typically distinguished by the volume of information being transmitted and

the...

...IR with LEDs that have a moderate cone angle to improve ease-of-use characteristics. **Cordless** connectivity via IrDA transfers files, point-to-point and bidirectionally, in a high-speed burst...

...narrow cone angle. IrDA transmissions require relatively careful aiming, and they're easy to block.

**Wireless** LANs must support high volumes of interactive data at high speed, in multipoint environments, and in large conference rooms. **Wireless** LANs use diffuse-IR transmission techniques. So each of these three markets presents opportunities for...

...The really new news here is that the IrDA standard has recently emerged to support **cordless** connectivity - that is, data interchange among a variety of devices, including PCs, PDAs, PC peripherals...

...CA with reservation, and with extensions to support bridging to wired networks and roaming between **wireless** -IR cells connected by a backbone wired (either Ethernet or token ring) network.

No approved IR LAN standard exists today. IEEE-802.11 has the mandate to develop a **wireless** standard but has focused mostly on RF technologies to date. The average optical power required...

17/3,K/16 (Item 4 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01581571 SUPPLIER NUMBER: 13345564 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Beaming data across town: wireless data technologies come to PCs.**

(includes related articles on how software vendors are supporting  
wireless networks, wireless electronic mail, sources of products)

Eisenberg, Amee

Computer Shopper, v13, n2, p200(6)

Feb, 1993

ISSN: 0886-0556

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 4868

LINE COUNT: 00394

**Beaming data across town: wireless data technologies come to PCs.**

(includes related articles on how software vendors are supporting  
wireless networks, wireless electronic mail, sources of products)

...ABSTRACT: venture between IBM and Motorola are land-based wide-area networks that send and receive **packet** -switched **data**; infrared **transmissions** use very high frequencies and are so narrowly focused that they resist interference, but suffer...

... data without wires and remain connected without contacts.

No single device defines the field of **wireless** data transfer. No single application solves the variety of problems inherent in connecting desktop, laptop...

...held computers. Rather, a class of solutions is evolving into what can best be called **wireless** data technologies.

You don't have to search far to see tangible benefits. On an immediate and practical level, workable **wireless** PC-data-transfer solutions promise big savings for businesses. Instead of breaking down walls to string cables through and around endless nooks, crannies, and cinder blocks, **wireless** networks offer a neater, less expensive alternative--and no messy, misleading cable diagrams.

Mobile applications...

...from wherever you're standing) are definitely the zesty computer-of-the-future uses for **wireless** data transfer.

ELECTROMAGNETIC FREQUENCIES

At their heart, all **wireless** transfer techniques depend on



electromagnetic radiation--most commonly, some kind of **radio** transmission. (Infrared systems depend, obviously, on infrared light emissions.)

Whether the system uses frequencies licensed...

...they almost appear as red light, they all use an electromagnetic wave to carry information.

**Wireless** data technologies that depend on FCC-licensed broadcasts include some **wireless** LANs and all **radio** communications carriers such as ARDIS, RAM Mobile Data, and the upcoming Iriridium satellite network.

Because **radio** signals are reliable over long distances and through buildings, the technology is widely employed for...

...we developed a variety of ways to broadcast information. The ones most commonly used by **wireless** data technologies are **cellular radio**, spread-spectrum **radio**, and packet **radio**.

#### THE LIMITS OF REALITY

Communications systems must perform two basic actions: encode information in a...

...usually includes some method of error correction.

Moving the encoded information without wires relies on **radio** waves. The easiest way to visualize this is through an analogy to another part of

...Now, you can transmit light without interfering with non-receivers. This is analogous to direct **radio** broadcasts, where information is sent only to the receiver for which it is intended.

However...

...using a flashlight in a dark room or in a brightly lit room.

We describe **radio** waves according to their frequency, that is, how often a current varies from peak to...

...we group frequencies into bands according to how they behave (or are perceived).

Spread-spectrum **radio** overcomes the problems of interference. The idea is that instead of broadcasting strongly over a...

...to a receiver designed to interpret information according to a specific spreading code.

Spread-spectrum **radio** broadcasts can coexist on the same frequencies without interfering with one another.

Waves in the...

...in the United States is regulated by the Federal Communications Commission (FCC). The fact that **radio** waves degrade over distance helps make them useful. We can control where and how far...

...use, hence, they are often called the ISM bands. We're familiar with the term **cellular radio** from car phones and the like. The technology behind it goes back to the idea that **radio** frequencies travel for a limited distance. A **cellular** network consists of many small **radio** stations--cells--that hand off the information from one to the next as the signal fades. With **cellular radio**, you broadcast and receive from your registered phone line while the carrier network ( **Cellular One**, for example) handles all the **radio** "bookkeeping."

By design, **cellular** networks are cost effective for transmitting information in a continuous format, i.e., voice communications. While plans are in the works for adding more carrying ability to the **cellular** networks by converting them from analog to digital transmissions, no industrywide ...on standards has yet been reached.

By their nature, computer communications tend to be short **bursts** of **information sent** with a wait in between each burst. Typical protocols involve eight bits of data sent with a **start bit**, a **stop bit**, and some interspersed error-correction bits--a little packet of information.

## PACKET-SWITCHED NETWORKS

Communications...

...burst of information leave you paying for a lot of dead air time. Packet-switching **radio** networks allow for much more economical **transmission** of computer **data**.

The protocol for a **packet**-switched network includes a standard amount of data packaged with an address. When a data...

...messages for many different destinations can share the same frequencies at any given time.

Packet- **radio** networks, such as IBM's and Motorola's joint venture ARDIS (Advanced **Radio** Data Information Service), RAM Mobile Data and Fleet Call Inc., are land-based wide area...

...between desks in an office or machines on a factory floor.

In short, spread-spectrum **radio**, packet **radio**, **cellular radio**, and infrared all provide viable means for connecting computers and other data gadgets without wires. Now that you have a basic understanding of how they work, how are they working?

### CELLULAR DRAWBACKS

Far and away, the technology least suited to **wireless** data transfer is the one that most people think of first-- **cellular**.

We are accustomed to using a modem and phone to connect remote computers. And we are familiar with the use of **cellular** phones. So, the combination of using **cellular** phone connections with a portable computer seems, at first glance, simple and logical.

Another plus for **cellular** is that the installed network covers the entire U.S. This makes staying in touch...

...and protocols have been announced that will enable portable computers to access remote computers through **cellular** phone lines. Unfortunately, there's also a lot of incompatible equipment around. Getting a carrier...

...to each other can turn into a daunting task. The hardware necessary to make a **cellular** connection must be customized for your equipment.

Besides the **cellular** phone, you need an interface box that connects your phone to your modem. This must be designed to match the connection on your particular phone.

When a **cellular** mobile telephone switching office (MTSO) hands off your call from one **cell** to another, a short signal interruption occurs. Data transfer protocols must be robust enough to...

...now are Microcom Inc.'s Microcom Networking Protocol 10 (MNP-10) and Millidyne Inc.'s **Cellular** Data Link Control (CDLC). (At press time, a forthcoming announcement, expected any day from U...  
...stew.)

### WHEN WILL THE PRICE BE RIGHT?

High prices are another drawback to using **cellular** for data transfer. At this time, despite the technological potential for 16,800 bps with...

...to 1200 or less.

While the data transmits slowly, the cost per minute on a **cellular** phone call can range between 20 and 60 cents or more. Add to that the nature of much computer **data** traffic--short, **bursty transmissions** that take less than a minute. **Cellular** lines are charged by the minute, with the result that you pay for a lot of dead air time.

**Cellular** FAX transmissions are much more cost effective. The loss of a few bits of data in a FAX often doesn't do much damage to the overall message.

If **cellular**, **wireless** data technologies aren't up to speed yet, they're making rapid strides. Products such as NEC Technologies, UltraLite **Cellular** Workstation (a notebook computer, portable phone, and **cellular** interface bundled together in one briefcase) and AT&T/NCR's Safari (NCR 3170) notebook computer (offered with a "**cellular** ready" modem) offer

one-stop solutions to matching phone, interface, modem, and computer.

Currently, IBM's PCRadio stands out as being the only all-in-one-unit **cellular** portable computer. The unit is "ruggedized," that is, waterproof and drop-resistant. The keyboard is...

...it's not going to run Windows. It is, however, the best example of how **cellular** portable computers need to be packaged to attract a real market.

The **cellular** networks in place today are analog technology; over the next five to 10 years, **cellular** networks will switch to digital encoding systems. Unfortunately, no clear standard has emerged yet for...

...digital systems. This will delay development of digital data products.

Another future development coming for **cellular** is CelluPlan II, a technique to intersperse data transmissions into the idle air time of existing analog **cellular** networks. Specifications for the CelluPlan II standard suggest data-transmission speeds of 19,200 bps.

#### THE POSSIBILITIES OF PACKET- **RADIO** NETWORKS

At this writing, there are two major public packet- **radio** networks providing coverage in the United States: ARDIS and RAM Mobile MOBITEK.

ARDIS, a joint...economical for short transactions and for situations where there are user pauses between transmissions.

Packet- **radio** networks require that the user subscribe to their service, use special software on both the...

...server computers, and necessitate modifications of modem-based software to work with them. A unique **radio** packet modem (RPM) is necessary. At this time, such units are priced around \$1,500...

...transmission. Iriridium is scheduled to come online some time in the mid-'90s.

#### ONE-WAY **DATA** **TRANSMISSION**

Taking the middle ground between **packet** -radio networks and pagers, a new endeavor from Oracle Corporation and McCaw Cellular offers one...

17/3,K/19 (Item 7 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01211076 SUPPLIER NUMBER: 06073481 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**There are many routes to packet switching. (Section 2: Connectivity)**

Gorin, Amy

PC Week, v4, n44, pC16(1)

Nov 3, 1987

ISSN: 0740-1604

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 791 LINE COUNT: 00062

...ABSTRACT: many more virtual connections than discrete physical connections. Packets may mix with others in the **data** stream during **transmission**, but it is unlikely two **packets** will be together from start to stop.

... was developed for use by the Army Advanced Research Projects Agency (AARPA). The technique, called **packet** switching, allowed for the rapid **transfer** of **data** from many sources to many destinations simultaneously over a single network, the first of which...

...a driver in a car can listen to a traffic report on the car's **radio** and avoid the more congested routes. Because data can be routed around a downed connection...

...through a communications protocol.

The simplest communications protocol is rudimentary asynchronous communication in which a " **start** **bit** " and " **stop** **bit** " (a single 1 or 0) is added to each character.

Several other forms of protocol...

17/AA,AN,TI/1 (Item 1 from file: 15)  
DIALOG(R)File 15:(c) 2003 ProQuest Info&Learning. All rts. reserv.  
00977305 96-26698  
Wireless data facts and fiction

17/AA,AN,TI/2 (Item 2 from file: 15)  
DIALOG(R)File 15:(c) 2003 ProQuest Info&Learning. All rts. reserv.  
00677253 93-26474  
Mobile office primer

17/AA,AN,TI/3 (Item 1 from file: 16)  
DIALOG(R)File 16:(c) 2003 The Gale Group. All rts. reserv.  
03855831 Supplier Number: 45527930  
User input devices still need some help

17/AA,AN,TI/4 (Item 1 from file: 148)  
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.  
09661241 SUPPLIER NUMBER: 19525476  
The right test equipment simplifies measuring BER in burst-mode systems.  
(bit-error rate)

17/AA,AN,TI/5 (Item 2 from file: 148)  
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.  
08057319 SUPPLIER NUMBER: 17146373  
Design ideas annual supplement 1994.

17/AA,AN,TI/6 (Item 3 from file: 148)  
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.  
08010784 SUPPLIER NUMBER: 16935527  
User input devices still need some help. (Designing Computers: Part 3:  
Input/Output) (Technical)

17/AA,AN,TI/7 (Item 4 from file: 148)  
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.  
07826398 SUPPLIER NUMBER: 17000284  
UARTs make possible low-cost networks of embedded systems. (universal  
asynchronous receiver-transmitters-based embedded system  
networks) (includes sidebar) (EDN Design Feature)

17/AA,AN,TI/8 (Item 5 from file: 148)  
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.  
07826390 SUPPLIER NUMBER: 17000272  
Ease file transfers with IrDA-protocol wireless infrared. (Infrared Data  
Association; wireless file transfer medium) (includes related article)

17/AA,AN,TI/9 (Item 6 from file: 148)  
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.  
07308430 SUPPLIER NUMBER: 15331594

ATM to the desktop: prospects and probabilities. (asynchronous transfer mode) (includes related article about current activities of the ATM Forum; another related article discusses peak data rates needed for different applications) (Cover Story)

17/AA,AN,TI/10 (Item 7 from file: 148)  
DIALOG(R) File 148:(c)2003 The Gale Group. All rts. reserv.

05578351 SUPPLIER NUMBER: 11760993  
Modems 101. (modem applications)

17/AA,AN,TI/11 (Item 8 from file: 148)  
DIALOG(R) File 148:(c)2003 The Gale Group. All rts. reserv.

05535799 SUPPLIER NUMBER: 11549937  
Use your personal computer for direct numerical control. (Emphasis: Systems and Software)

17/AA,AN,TI/12 (Item 9 from file: 148)  
DIALOG(R) File 148:(c)2003 The Gale Group. All rts. reserv.

02031495 SUPPLIER NUMBER: 03157751  
Electronic ties that bind. (Local area networks)

17/AA,AN,TI/13 (Item 1 from file: 275)  
DIALOG(R) File 275:(c) 2003 The Gale Group. All rts. reserv.

01793602 SUPPLIER NUMBER: 16993903  
Working with communications servers.

17/AA,AN,TI/14 (Item 2 from file: 275)  
DIALOG(R) File 275:(c) 2003 The Gale Group. All rts. reserv.

01618148 SUPPLIER NUMBER: 14350880  
Accelerate your data. (fax modems running at 9,600 bps and higher) (includes related articles on the outlook for ISDN, fax modems with voice capabilities, modems on LANs, a glossary of online terms, shopping tips, and modems for portable computers) (Cover Story) (Buyers Guide)

17/AA,AN,TI/15 (Item 3 from file: 275)  
DIALOG(R) File 275:(c) 2003 The Gale Group. All rts. reserv.

01586597 SUPPLIER NUMBER: 13462270  
Connecting with modem specs. (includes related articles on modulation protocols, error correction and data compression) (Direct Tech: Specifics)

17/AA,AN,TI/16 (Item 4 from file: 275)  
DIALOG(R) File 275:(c) 2003 The Gale Group. All rts. reserv.

01581571 SUPPLIER NUMBER: 13345564  
Beaming data across town: wireless data technologies come to PCs. (includes related articles on how software vendors are supporting wireless networks, wireless electronic mail, sources of products)

17/AA,AN,TI/17 (Item 5 from file: 275)  
DIALOG(R) File 275:(c) 2003 The Gale Group. All rts. reserv.

01450979 SUPPLIER NUMBER: 11323513

A surfeit of standards. (modem standards) (Computer Shopper's Guide:  
Modems) (buyers guide)

17/AA,AN,TI/18 (Item 6 from file: 275)

DIALOG(R)File 275:(c) 2003 The Gale Group. All rts. reserv.

01213302 SUPPLIER NUMBER: 04832613

The modern modem: bridge to the on-line world.

17/AA,AN,TI/19 (Item 7 from file: 275)

DIALOG(R)File 275:(c) 2003 The Gale Group. All rts. reserv.

01211076 SUPPLIER NUMBER: 06073481

There are many routes to packet switching. (Section 2: Connectivity)

?show files;ds

File 9:Business & Industry(R) Jul/1994-2003/Aug 12

(c) 2003 Resp. DB Svcs.

File 20:Dialog Global Reporter 1997-2003/Aug 13

(c) 2003 The Dialog Corp.

File 610:Business Wire 1999-2003/Aug 13

(c) 2003 Business Wire.

File 613:PR Newswire 1999-2003/Aug 13

(c) 2003 PR Newswire Association Inc

File 624:McGraw-Hill Publications 1985-2003/Aug 12

(c) 2003 McGraw-Hill Co. Inc

File 634:San Jose Mercury Jun 1985-2003/Aug 12

(c) 2003 San Jose Mercury News

File 636:Gale Group Newsletter DB(TM) 1987-2003/Aug 13

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File 810:Business Wire 1986-1999/Feb 28

(c) 1999 Business Wire

File 813:PR Newswire 1987-1999/Apr 30

(c) 1999 PR Newswire Association Inc

Set	Items	Description
S1	370413	(RECORD? ? OR DATA OR FILE? ? OR INFORMATION OR INFO OR BL- OCK? ?) (3N) (TRANSMIT? OR TRANSMISSION? ? OR SEND??? OR RELAY?- ?? OR SENT OR TRANSFER?)
S2	2657416	PACKET? ? OR BURST? ? OR FRAME? ? OR DATAGRAM? ? OR ATM OR ASYNCHRONOUS()TRANSFER()MODE OR UNIT OR APDU
S3	181531	ACTIVAT?
S4	11805980	HALT??? OR END??? OR TERMINAT??? OR STOP? ? OR STOPPING OR OFF
S5	8020951	RECORD? ? OR BIT OR BITS OR BYTE OR BYTES OR CODE? ? OR ID- ENTIF??? OR SIGNAL? ? OR LABEL??? OR INDICAT? OR TOKEN?
S6	2829444	CELL OR CELLULAR OR CORDLESS OR WIRELESS OR RADIO OR RADIO OR BLUETOOTH OR WAP OR HDML OR WIFI OR WI()FI OR 3G
S7	242325	(S3 OR BEGIN? OR ON OR START??? OR INITIAT??? OR INAUGURAT- ???) (2W)S5
S8	43401	S4(2W)S5
S9	1059	S7(10N)S8
S10	14855	S1(5N)S2
S11	1	S9(S)S10
S12	0	S6(S)S11
S13	19385	S1(10N)S2
S14	6	S9 AND S13
S15	10	S2(10N)S9
S16	3	S6 AND S15
S17	1927	S6(10N)S10
S18	0	S9(S)S17
S19	0	S9 AND S17
S20	1	S17 AND S7 AND S8
S21	1	S17(10N) (S7 OR S8)
S22	36	S17 AND (S7 OR S8)
S23	2	S17(S) (S7 OR S8)
S24	12	S11 OR S14 OR S16 OR S20 OR S21 OR S23
S25	6	S24 NOT PY>2000
S26	6	S25 NOT PD=20000617:20030930
S27	6	RD (unique items)

27/3,K/1 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2003 The Dialog Corp. All rts. reserv.

11219606 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Science and Technology: Out for the count: Counting human genes**  
ECONOMIST  
May 27, 2000  
JOURNAL CODE: FECN LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 756

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... is that the genes themselves constitute only 2-3% of the DNA in a human **cell**. Picking this out of the remaining "junk" may not be quite as hard as finding...

...it comes close.

One way to try to identify genes is to look for the "**start**" and "**stop**" **signals** along the DNA sequence. These mark the points where the enzymes that transcribe the genetic...

...known as messenger RNA) that can be used by the protein-making machinery of a **cell** begin and end their tasks.

The space in between is known as an open reading- **frame**. But such **frames** are merely provisional genes. The **start** and **stop signals** may be accidental readings caused by "**frame** shifting". This is because the DNA message is written in groups of three bases. Begin...

... the wrong base and the whole message will be gobbleddegook which could easily include false **start** and **stop signals**. Indeed, it is worse than that, for DNA is a double-stranded molecule, and genes...

27/3,K/2 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2003 The Gale Group. All rts. reserv.

04175378 Supplier Number: 54664654 (USE FORMAT 7 FOR FULLTEXT)  
**CRTC: Telecom Public Notice CRTC 99-14.**  
M2 Presswire, pNA  
May 18, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 12469

... the new media industry in Canada on which there was a high degree of agreement **on** the **record** of the proceeding are summarized below. Some of these attributes, particularly those that are integral...television. American broadcasters cannot provide their programming directly to Canadian viewers except in situations where **off -air signals** are directly receivable. This has resulted in a system whereby profitable non-Canadian programming is...both advantages and disadvantages in the future new media environment, the Commission is confident, based **on** the **record** of this proceeding, that the industry is moving in a direction that will result in ...fibre optic circuits of telephone companies, coaxial cable of cable companies, and various types of **wireless** connections.

\* **packet** -based technologies **transmit information** over a network by splitting up the data into small chunks, or "packets." Each packet...

27/3,K/3 (Item 2 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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03166472 Supplier Number: 46485648 (USE FORMAT 7 FOR FULLTEXT)

**BANDWIDTH GLOSSARY AND PRODUCT PROVIDERS**

Electronic Commerce News, v1, n22, pN/A

June 24, 1996

Language: English Record Type: Fulltext

Document Type: Newsletter; General

Word Count: 427

**ATM : Asynchronous Transfer Mode** , an international packet switching standard.

**Asynchronous Transmission** : Method of sending data using " start " and " stop " bits to communicate characters.

**Bandwidth**: Highest frequency transmittable in an analog communication.

**Broadband**: Communication across a...

...corporate networking people dream about -- bandwidth big enough to handle the ever-growing WAN traffic.

**Frame Relay : Data transmission** technique, including " start " bit , address of recipient, data to be communicated, error detector and " end " bit .

**Gateway**: A system that allows data to move between normally incompatible networks.

**HFC** (Hybrid fiber...

...central processing unit on one chip.

**Navigation**: Using successive choices to reach a service goal.

**Packet Switching: Transmission** method in which data and destination are encoded into standard length packets .

**PPTP**: Point-to-Point Tunneling Protocol.

**Protocol**: Set of rules for communication between computers.

**RSVP**...

27/3,K/4 (Item 3 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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02945836 Supplier Number: 45993560 (USE FORMAT 7 FOR FULLTEXT)

**REDNET: Compatible Systems' 12-Port Internet Router takes full advantage of high-speed lines**

M2 Presswire, pN/A

Dec 8, 1995

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 542

... TCP/IP network protocols. All ports are independently configurable and will provide synchronous or asynchronous data transmission using either the PPP (Point-to-Point Protocol) or Frame Relay wide area transport protocols.

"Business users of the Internet have a right to expect...

...Kbps. Asynchronous communications also require 20% of available bandwidth for overhead in the form of start and stop bits . In fact, an asynchronous termination to a 128 Kbps ISDN connection actually runs at a...

27/3,K/5 (Item 4 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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01092301 Supplier Number: 40740701 (USE FORMAT 7 FOR FULLTEXT)

**BRIEF GLOSSARY OF NETWORKING & TELECOMMUNICATIONS, PART 1**

Online Libraries & Microcomputers, v7, n4, pN/A

April, 1989  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Professional Trade  
Word Count: 2489

... microcomputers and terminals in homes.

ASYNCHRONOUS TRANSMISSION - Bytes (characters) of information are sent with special **starting bits** and **stop bits** which are identifiable by the sending and receiving devices. Since characters can be sent one a received signal. This can be derived from the incoming signals.

**DATAGRAM** - **Data** which is **transmitted** as an isolated entity across a network. This data does not need to be transmitted...Compare with MAC.

LOCAL AREA DATA TRANSPORT (LADT) - LADT is based on the x.25 **packet** switching protocol and allows **data** to be **sent** over voice lines at higher frequencies than voice at speeds ranging from 1200 to 9600...

27/3,K/6 (Item 1 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0531574 BW0148

**COMPATIBLE SYSTEMS: Compatible Systems' 12-Port Internet Router Takes Full Advantage of High-Speed Lines; RISC Router 2900i Lets ISPs Deliver Promised Bandwidth; Multi-site Companies Get More for Access Dollar**

November 06, 1995

Byline: Business Editors/Computer Writers

...TCP/IP network protocols. All ports are independently configurable and will provide synchronous or asynchronous **data transmission** using either the PPP (Point-to-Point Protocol) or **Frame** Relay wide area transport protocols.

"Business users of the Internet have a right to expect...

...Kbps. Asynchronous communications also require 20% of available bandwidth for overhead in the form of **start** and **stop bits**. In fact, an asynchronous termination to a 128 Kbps ISDN connection actually runs at a...

- ...when connection terminates at asynchronous port on Internet Service Provider's premise.
3. Introduction of **start / stop bits** and other overhead reduces available bandwidth by 20%. (Note: this reduction does not include further...

09627153

FILE 'CONFSCI' ENTERED AT 16:14:36 ON 13 AUG 2003

L1	542 S (RECORD# OR DATA OR FILE# OR INFORMATION OR INFO OR BLOCK#) (3
L2	6070 S PACKET# OR BURST# OR FRAME# OR DATAGRAM# OR ATM OR ASYNCHRONO
L3	22039 S ACTIVAT? OR BEGIN? OR ON OR START### OR INITIAT### OR INAUGUR
L4	7314 S HALT### OR END### OR TERMINAT### OR STOP# OR STOPPING OR OFF
L5	23578 S RECORD# OR BIT OR BITS OR BYTE OR BYTES OR CODE# OR IDENTIF##
L6	51240 S CELL OR CELLULAR OR CORDLESS OR WIRELESS OR RADIO OR RADIO OR
L7	71 S L3(2W)L5
L8	49 S L4(2W)L5
L9	1 S L7(10A)L8
L10	8 S L1(5A)L2
L11	9 S L9 OR L10
L12	2 S L6 AND L11

08/13/2003 CSW-E

09677153

L12 ANSWER 1 OF 2 CONFSCI COPYRIGHT 2003 CSA on STN  
AN 91:31120 CONFSCI  
DN 91059917  
TI On the **data transmission** delay of the multicast mobile  
**packet radio**  
AU Yamauchi, Y.  
CS Osaka Inst. Technol., Osaka, Japan  
SO IEEE Publications, 445 Hoes Lane, Piscataway, NJ 08855, USA, 1991 VTS  
Conference Record; ISBN: 0-87942-582-2; Microfiche: 0-87942-584-9 Paper  
No. 15.5.  
Meeting Info.: 912 0075: 1991 IEEE Vehicular Technology Society Conference  
(9120075). St. Louis, MO (USA). 19-22 May 1991. IEEE Vehicular Technology  
Society; IEEE St. Louis Section.  
DT Conference  
FS DCCP  
LA UNAVAILABLE

L12 ANSWER 2 OF 2 CONFSCI COPYRIGHT 2003 CSA on STN  
AN 75:45097 CONFSCI  
DN 75092394  
TI Random access techniques for **data transmission** over  
**packet-switched radio** channels.  
AU Kleinrock, L...  
SO AFIPS Conference Proceedings, 1975 NCC," \$50: AFIPS Press, 210 Summit  
Ave., Montvale, N.J. 07645. Papers also available in audio cassette form,  
by session. Inquire: AFIPS Press, above..  
Meeting Info.: 1975 National Computer Conference (A752141). Anaheim,  
California. 19-22 May 75. American Federation of Information Processing  
Societies; Association for Computing Machinery; Data Processing  
Management Association; IEEE Computer Society; Society for Computer  
Simulation; et al.  
DT Conference Article  
FS DCCP  
LA UNAVAILABLE